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## B Sc. I. (Entrepreneurshin) (Semester - I) (CBCS Pattern)

Examinat Examinat ENGLISH (C On Track – English	ion, 2018 comp.) (Old)
Day and Date: Wednesday, 28-3-2018 Time: 2.30 p.m. to 5.00 p.m.	Max. Marks : 70
<b>N.B.:</b> 1) <b>All</b> questions are 2) Figures to the <b>rig</b>	compulsory. ht indicate full marks.
1. Rewrite the following sentences by choos	osing the correct alternative:
1) What did the policeman on the beat	constantly do ?
a) twirl his stick	b) interrogate people on his beat
c) smoke a cigar	d) unlock doors
2) Jimmy Wells and Bob were raised in	
a) New York b) Chicago	c) City d) Restaurant
3) The writer and Miss Krishna	<u> </u>
<ul> <li>a) were at school together</li> </ul>	
c) met at a tea party	d) were neighbours
<ol> <li>In the end the narrator refused to a except</li> </ol>	ccept all of Miss Krishna's possession
a) a cigarette lighter	b) a little nine-inch clock
c) a tiny glazed coffee cup	d) a small Burmese box
5) 'The Myth of Artificial intelligence' is v	written by
a) Anita Desai	b) Attila Narin
c) Nargis Dalal	d) Dr. Abdul Kalam
<ol><li>The word 'intelligence' is derived from</li></ol>	
a) intellegere b) intellect	c) intellectual d) inter
7) The bangle sellers are carrying their leading	oads
a) to a married woman's house	b) to the house of a maiden woman
c) to a temple fair	d) to the streets



	8)	The phrase 'like the a) Simile c) Personification	e flame of her marri	b)	is the Metaphor Alliteration	_ used by the poet.	
	9)	The Irish Airman va) Kiltartan Cross c) Kross Kitarton		,	Dublin Kitron Cross		
	10)	This is Ramu and ta) his	this is b) her			d) they	
	11)	Ram, Seeta and V a) he	ijay went Mumbai a b) she			ato wada. d) they	
	12)	Doctor is aa) Proper	noun. b) Common	c)	Collective	d) Countable	
	13)	My friend returned a) on	home 10 F b) in		at	d) to	
	14)	She can take care a) oneself	of b) herself	c)	her	d) myself	
2.	1) 2) 3) 4) 5) 6) 7) 8)	what sort of relati What is the climax What do you under What is the meaning What is meant by, Who is the narrato What coloured bar What does the phi What does the spe foresees his death	onship did Bob and of the story "After erstand of Miss Krising of the word conditatificial intelligent of poem 'The bangles are suitable frase "this life, this caker say about those	d Jir Two shna nois ce' ' ngle or a deat	nmy share ? enty Years" ? a's childhood fro seur ? ? sellers' ? bride on bridal n h" refer to ?		14
3.	A)	2) How Ms Krishn	aphs on <b>any two</b> o e Computer Intellig a spent a few days cene in the beginni	jent s wit	? h writer ?	r Twenty Years"	10
	B)	Describe the them	_		•	. Worky routo .	4

4. Answer the following question any two:

14

- 1) Superstitions.
- 2) Define noun and its types with some examples.
- 3) Define pronoun and its types with some examples.
- 5. Answer the following question any two:

14

1) Read the following passage carefully and make a note of it.

Civilised man is by now well aware of the more obvious symptoms of water pollution: scum-covered rivers, stinking bays, and shorelines littered with bloated fish. The cause of much of it is equally clear: the indiscriminate dumping of raw sewage and industrial sludge into the nearest body of water has exceeded the absorptive capacity of the environment. Because the symptoms of this overflow are so compelling, it seems likely that we shall finally attempt to do something about it. But continued population growth makes it impossible that we shall find the funds to do more than skim off the chunks.

Unfortunately, the most serious water-pollution treats are those which cannot be seen, smelt, or picked up by the handful. The organic content in many domestic water supplies which have been treated to some degree is apparently still high enough to protect viruses from the effects of chlorine. Hence tap water is a suspected transmission route for the alarming rise of infectious hepatitis in the United States today. Moreover, the vast array of chemicals which industry spews into the environment in many cases defies filtration. These chemicals now pervade not only rivers, lakes and even oceans, but also vast reservoirs of ground water. As with air pollutants, their possible toxic effects have in most case not even been adequately catalogued. Many, of course, are known to be fatal to fish, which is the mainstay of high quality protein supplies in much of the world.

- 2) Write a paragraph on 'A Meaningful Education'.
- 3) Write an essay on 'Impact of Mobiles on the Lives of the Youth Today'.

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#### B.Sc. – I (Entrepreneurship) (Semester – I) Examination, 2018 ENGLISH (Compulsory) (New) (CBCS) "Golden Petals"

		"Golden	) Pe	etals"		
•	d Date : Wednesd 2.30 p.m. to 5.00 p				Max. Marks : 70	)
	,	questions are <b>co</b> ures to the <b>right</b> i	•	•	S.	
1. Rev	vrite the following	sentences by usi	ng t	the correct opti	ions.	14
1)	Mark Sennett and an		d fir	st saw Charlie	Chaplin in A Night in	
	a) Italian	b) American	c)	Indian	d) English	
2)		gga getting selec			oman jawan, women t units only.	
	a) pro-	b) re-	c)	non-	d) post-	
3)	Vajasrawas dona	ated Nachiketa to	the	God of Death,	since he was	
	a) very generous	6	b)	angered by his	s son	
	c) fed up with his	sson	d)	poor and help	less	
4)	The Indian Army	started to recruit	fem	nale officers in	the year	
	a) 1992	b) 1994	c)	1996	d) 1991	
5)	The narrator in <i>I</i> couldn't	Find No Peace sa	ays	that he flew at	pove the wind, yet he	
	a) succeed	b) die	c)	arise	d) fall	
6)	According to Emi	ly Dickinson the p	peop	ple who win ar	e not able to define	
	a) loss	b) victory	c)	life	d) death	
7)	"Likewise displea	seth me both life	and	d death,		
	And my	is causer	of	this strife."		
	a) father	b) enemy	c)	delight	d) sorrow	

SLR-S	B – 2		-2-			
8)	The cattle in the	photograph			to my friend.	
	a) is belonging			belong	•	
	c) belongs		d)	belonging		
9)	The noun friend	carries		gen	nder.	
	a) masculine	b) neuter	c)	common	d) feminine	
10)	She saw herself	in the mirror.				
	The word hersel	f in the above se	enten	ce is	pronoun.	
	a) a personal		b)	an empha	tic	
	c) a reciprocal		d)	a reflexive	;	
11)	He is such	uniq	ue pe	erson that e	everyone likes him.	
	a) an	b) a	c)	the	d) no Article	
12)	If I were a bird, I	would fly.				
	The above sente	ence has		m	ood.	
	a) Imperative		b)	Subjunctiv	/e	
	c) Indicative		d)	Interrogati	ive	
13)	I did a project.					
	The word <i>did</i> in	the above sente	nce is	s a		
	,	•	,		d) semi-modal	
14)	Have you seen _			_ Mount Ev	verest?	
	a) a	b) the	c)	no Article	d) an	
2. Ans	swer the following	bits in <b>two</b> to <b>th</b>	ree	sentences	each. (Any Seven)	14
1) \	Why did Charlie (	Chaplin feel that	he sh	nould return	n to the stage ?	
2) 1	How did Shanti T	igga join the Indi	an A	rmy ?		
3) \	Why was Nachike	eta disappointed	by h	is father, V	ajasrawas ?	
4)	How did the New \	York writer review	Cha	plin's first m	novie <i>Making a Living</i> ?	
5) \	What qualities of S	Shanti Tigga motiv	/ated	the Indian I	President to honour her?	
,	Why did Yama gi					
,	, c				d the audiences ?	

8) What does the unexpected death of Shanti Tigga mean?



3.	A)	Answer the following questions in about <b>50</b> words <b>each</b> . ( <b>Any two</b> )  1) What do you mean by communication?	8
		<ul><li>2) How do you describe the <i>what</i>, <i>why</i> and <i>how</i> of communication?</li><li>3) How will you communicate to you younger brother the recipe of making tea?</li></ul>	
	B)	Write short notes on the following. (Any two)	6
		1) What is the central theme of the poem I Find No Peace?	
		2) Why does Emily Dickinson say the purple Host can't tell the definition of victory?	
		3) Why did the poet in <i>I Find No Peace</i> experience contradictory feelings?	
4.	An	swer the following elaborately. (Any one)	14
	1)	Bring out in detail the communication process by illuminating its stages.	
	2)	Describe the importance of ${\it Mind, Medium\ and\ Message}$ in effective communication.	
5.		erpret the Seven Cs-Completeness, Clarity, Correctness, Conciseness, onsideration, Courtesy and Concreteness in a successful communication.	14

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### B.Sc. – I (Semester – I) (CBCS Pattern) Examination, 2018

	REPRENEURSHIP (Paper – I) eurship and the World of Business
Day and Date : Saturday, 31 Time : 10.30 a.m. to 1.00 p.r	
2) Dra	questions are <b>compulsory</b> .  If you figure where it is necessary.  If you have a series to the right indicate full marks.
1. Multiple choice question	: <b>14</b>
1) The term entreprene	ur was first used in language.
a) French	b) Greek
c) American	d) Latin
Adverse and  set up a new venture	financial conditions can motivate an individual to .
a) Favorable	b) Supportive
c) High	d) All of these
3) Features of entrepre	neurship is
<ul><li>a) Economic activity</li></ul>	b) Creative activity
c) Innovative activity	d) All of these
entrepre in practicing any cha	eneur is characterized by great caution and skepticisminge.
a) Innovating	b) Fabian
c) Imitative	d) None of these
5) The term motivation	nas derived from the word
a) Motivate	b) Motives
c) Motive	d) Motivational

-2-



6)	The most important function of ar	n entrepreneur is
	a) Risk assumption function	b) Managerial function
	c) Function of innovation	d) Decision making function
7)	An entrepreneur is theby himself.	of the enterprise which he establishes
	a) Owner	b) Manager
	c) Employee	d) Worker
8)	In phase of entrep entrepreneurs are properly traine	reneurship development, the motivated d.
	a) Development	b) Training
	c) Maturity	d) Initial
9)	While entrepreneurs refers to a p	erson, entrepreneurship refers to
	a) Action	b) Development
	c) Achievement	d) Function
10)	factors encourage w	vomen to become entrepreneurs.
	a) Pull	b) Push
	c) Family	d) Creative
11)	may be defined as t	he process that motivates a person into
	action and includes him to continu of goals.	e the course of action for the achievement
	a) Motivation	b) Innovation
	c) Identification	d) Development
12)	The entrepreneurs who blindly fol in spite of the loss is called	lows the traditional methods of production
	a) Drone entrepreneur	b) Adoptive entrepreneur
	c) Fabian entrepreneur	d) Innovative entrepreneur
13)	Entrepreneurship development co	onsist of phases.
	a) One b) Four	c) Two d) Three
14)	Entrepreneur arising within an or	ganisation is called
	a) Intrapreneur	b) Innovator
	c) Economist	d) Manager

2. Answer any seven of the following:	14
1) Partnership firm.	
2) Write note on women entrepreneurship.	
3) Entrepreneurship as process.	
4) Explain motivation concept.	
5) Introduction to commerce.	
6) Classification of business activity.	
7) Management of business growth.	
8) Meaning and definition of business.	
9) Sole trader/proprietor.	
3. a) Answer any two of the following:	10
1) Types of entrepreneurs.	
2) Explain nature and scope of business ethics.	
3) Write note on HUF.	_
b) Explain in detail the concept of innovation.	4
4. Answer <b>any two</b> of the following :	14
1) Importance of business ethics in India.	
2) Factor responsible for emergence of entrepreneurship.	
3) Explain in detail qualities required to become a successful entre	epreneur.
5. Attempt any two of the following:	14
1) Explain the problems faced by women entrepreneurs.	
2) Explain the entrepreneurial motivation in detail.	
3) Explain the role of entrepreneurship in Indian economy.	

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#### B.Sc. – I (Semester – I) (CBCS) Examination, 2018 ENTREPRENEURSHIP (Paper – II) Economics for Manager and Managerial Accounting

Day ar	nd Date: Monday, 2-4-2	2018		Max. Marks	: 70
Time:	10.30 a.m. to 1.00 p.m.				
1. Ch	noice and write a correc	t answer from gi	ven four alterna	atives :	14
1)	When marginal utility is	s zero, total utilit	y is		
	a) Nil b) C	One c)	Minimum	d) Maximum	
2)	Giffen goods are the _	god	ods.		
	a) Superior	b)	Quality		
	c) Prestigious	d)	Inferior		
3)	A firm undercapacity.	_ competition ha	s a regular tend	ency to show excess	
	a) Oligopoly	b)	Perfect		
	c) Monopolistic	d)	Imperfect		
4)	refers to sellers in market.	the market str	ucture where th	ere are at least two	
	a) Monopoly	b)	Duopoly		
	c) Oligopoly	d)	Perfect compe	tition	
5)	The concept	was introduc	ed by Alfred M	larshal.	
	a) Real cost of produc	etion b)	Money cost of	production	
	c) Opportunity cost	d)	Total cost		
6)	When the demand char	nges in the same	proportion to the	e change in price it is	
	a) Unitary inelastic	b)	Unitary elastic		
	c) Perfectly inelastic	d)	Perfectly elasti	С	
7)	Wealth consist of all th	ie	goods.		
	a) Financial	b)	Economic		
	c) Monetary	d)	None of these		

SLR-S	B – 4		-2-				
8)		is type of account					
·	a) Real			Cost	d)	Direct	
9)	Profit and Loss A	account also called	d as				
	a) Income stater	nent	b)	Fund flow state	eme	ent	
	c) Current Ratio		d)	Retained earni	ng	statement	
10)	A person who ow a) Creditor	ves money to the to b) Debtor			۹)	Owner	
11\	•	•	-	-	u)	Owner	
11)		s under b) Capital			d)	Expenses	
12)	An example of fix		-,		,		
,	•	b) Value stock	c)	Income stock	d)	All the above	
13)	Cost of capital is	helpful in corpora	tive	analysis			
	a) Source of fina	nce	b)	Source of serv	ice		
	c) Source of mat	terial	d)	Product			
14)	Demand is a fund		,	<b>5</b>			
	a) Price	b) Firm	c)	Product	d)	Cost	
2. So	lve <b>any seven</b> of	the following:					14
1)	What is meant by	/ Economics ?					
2)	Define Manager.						
3)	What do you mea	an by Monopoly?					
4)	Define Accounting	g.					
5)	Define Demand a	analysis.					
6)	Write down rules	of account.					
7)	Define business	finance.					
8)	Write down vario	us book of accour	nt.				
9)	What is meant by	/ Balance Sheet ?					
3. A)	2) Draw a format	of the following: unt? Explain the ty Journal, Ledger, Po cope of Manageria	&L /	√c, Trial Balance	an	d Balance Sheet.	10
B)	Short note on Bu	siness finance.					4

4.	Attempt	any	two	of	the	following	
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1) Explain the basic concept of economics.

14

- 2) Explain the features of Perfect competition.
- 3) Explain the nature and scope of accounting.
- 5. Attempt any two of the following:

- 1) Explain the demand analysis and its objectives.
- 2) Explain the source of financial information.
- 3) To create journal entries of following transaction
  - a) Ashok starts business with Rs. 10,000
  - b) Purchase machinery for Rs. 50,000 and furniture Rs. 10,000
  - c) Paid amount for rent Rs. 1,000
  - d) Deposit Rs. 10,000 in Bank
  - e) Purchase goods for Rs. 20,000 from Mr. Ram on credit.
  - f) Sold goods to Mr. Rakesh for Rs. 10,000
  - g) Rs. 5,000 withdraws from bank for personal use.

**SLR-SB - 5** 

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## B.Sc. - I (Semester - I) (Entrepreneurship) (CBCS)

	Fundameı	Examina INDUSTRIAL ntals of Inorga	. C	HEMISTRY		Paper – I)	
Day an	d Date : Tuesday, 3	3-4-2018				Max. Marks : 7	70
Γime :	10.30 a.m. to 1.00	p.m.					
	, r	-	l dia	agrams and v		e equations <b>wherever</b> ks.	
	lect the most correntences.	ct alternative for e	eac	h of the follo	win		14
i)	The Bond which is	formed by sharir	ng c	of electron is		<del></del>	
	a) ionic	b) covalent	c)	co-ordinate	d)	hydrogen	
ii)	Ionic solids in mol	ten state are					
	a) good conducto	rs	b)	insulators			
	c) semiconductor	S	d)	none of thes	se		
iii)	Molecular orbitals	are					
	a) monocentric		b)	dicentric			
	c) polycentric		d)	dicentric an	d p	olycentric	
iv)	The optimum diss	olved oxygen in n	atu	ral water is _		ppm.	
	a) 1-2	b) 4 – 6	c)	2-3	d)	8-10	
v)	The water which is	s fit for drinking pu	ırpo	ose is called	as .	water.	
	a) potable	b) deionized	c)	distilled	d)	sewage	
vi)	The geometry of w	ater molecule is _					
	a) Octahedral	b) Linear	c)	V shaped	d)	Hexagonal	
vii)	The bond order of	Li <sub>2</sub> is	_				
	a) 1	b) 2	c)	0	d)	1.5	
viii)	From the exhaust	of automobile		major p	ooll	utant is relased in air.	
	a) CO	b) HC	c)	SO <sub>2</sub>	d)	$NO_X$	

2.

ix)	is the example of phys	sical pollutant.		
	a) Micro-organism	b) Pesticides		
	c) Odour	d) Detergent		
x)	Py-Py atomic orbital results in form	ation of	bond.	
	a) σ b) axial	c) linear	d) π	
xi)	Antibonding Mos are at	energy level.		
	a) equal b) lower	c) higher	d) same	
xii)	Intensity of sound is measured in $\_$			
	a) K	b) dB		
	c) PPm	d) mg		
xiii)	solvents are used to c	dissolve ionic so	lids.	
	a) Polar	b) Non-polar		
	c) Organic	d) All		
xiv)	The H-O-H bond angle in $H_2O$ mole	ecule is	-	
	a) 109°28′	b) 104°28′		
	c) 87°36′	d) 107°35′		
Sol	ve <b>any seven</b> of the following.			14
i)	Define Air pollution with example			
ii)	What is meant by BOD ? Give example 2015	mple.		
iii)	Define Lattice energy.			
iv)	Define co-ordinate bond, with suital	ble example.		
v)	Explain bonding molecular orbital.			
vi)	What is the effect of $SO_X$ on human	n health ?		
vii)	What do you mean by alkalinity of	water?		
viii)	What is bond order?			
ix)	Draw neat labelled Mo diagram of H	lydrogen molec	ule.	



3.	A)	Solve any	/ two	of the	following	1.
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- i) Differentiate between atomic and molecular orbitals.
- ii) Write a note on electron affinity.
- iii) Explain the formation of BF<sub>3</sub> molecule on the basis of hybridisation.
- B) Discuss in detail, types of air pollutant.

4

4. Solve any two of the following.

14

- i) Draw the Mo diagram of oxygen molecule. Comment on the stability and magnetic property of oxygen molecule.
- ii) Explain the formation of ammonia molecule on the basis of VSEPR theory.
- iii) Explain in brief properties of ionic solid.
- 5. Solve any two of the following.

- i) Distinguish between bonding and anti-bonding molecular orbitals.
- ii) Explain the crystal structure of CsCl with respect to unit cell, co-ordination number and stoichiometry.
- iii) Explain the types and sources of water pollution in detail.

**SLR-SB - 6** 

Seat	Set	J
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# B.Sc. – I (Semester – I) (Entrepreneurship) (CBCS) Examination, 2018 INDUSTRIAL CHEMISTRY (Paper – II) Fundamentals of Organic Chemistry

	s of Organic Chemistry	
Day and Date: Wednesday, 4-4-2018 Time: 10.30 a.m. to 1.00 p.m.	Max. Marks :	70
•	s are <b>compulsory</b> . abelled diagrams and <b>write</b> equations. he <b>right</b> indicate <b>full</b> marks.	
1. Select most correct alternative for	each of the following and rewrite the sentences:	14
i) Which of the following alkanes	s can not be prepared by Wurtz reaction.	
a) Methane	b) Ethane	
c) Propane	d) Butane	
ii) Ethanol on heating with conc.	H <sub>2</sub> SO <sub>4</sub> gives	
a) CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	b) C <sub>2</sub> H <sub>6</sub>	
c) C <sub>2</sub> H <sub>4</sub>	d) $C_2H_2$	
iii) Acetylene, when passed throug	gh red hot tube product is formed.	
a) Cyclohexane	b) Cyclohexene	
c) Ethane	d) Benzene	
iv) Which of the following is cumu	ulated diene ?	
a) $CH_2 = CH - CH - CH_2$	b) $CH_2 = CH - CH_2 - CH = CH_2$	
c) $CH_2 = C = CH_2$	d) $CH_3 - CH_2 - CH_2 - CH_3$	
v) Baeyer's reagent is		
a) alk KMno <sub>4</sub> solution	b) acidic KMno <sub>4</sub> solution	
c) Neutral KMno <sub>4</sub> solution	d) Aq Br <sub>2</sub> solution	
vi) The correct structure of benze	ene was given by	
a) Wohler	b) Kekule	
c) Davy	d) Dewar	

vii)	The catalyst used in Friedel-Craf	t's r	eaction is	
	a) Ni	b)	Pt	
	c) Alcl <sub>3</sub>	d)	None of these	
viii)	Carbon and Hydrogen are estima	ited	by	
	a) Liebig's method	b)	Carius method	
	c) Kjeldahl's method	d)	None of these	
ix)	The drug used to control concenagent.	itrat	ion of blood sugar are	
	a) Anti-diabetic	b)	Antipyretic	
	c) Anti-malerial	d)	Anti-inflammatory	
x)	Azo dyes contain	_fu	inctional group.	
	a) N = N	b)	N = O	
	c) $N - NO_2$	d)	N – OH	
xi)	Potash bulbs are used during the	est	imation of	
	a) Sulphur	b)	Nitrogen	
	c) Halogen	d)	Carbon	
xii)	Paludrin is used as			
	a) Antidiabetics	b)	Antipyretics	
	c) Antimalerials	d)	Antiamoebic agent	
xiii)	A chromophore is an		_	
	a) Atom	b)	Group of atom	
	c) Unsaturated group	d)	Aldehyde group	
xiv)	Olefins can be hydrogenated by $\_$			
	a) Zn + Hcl	b)	Raney Ni + H <sub>2</sub>	
	c) Nascent H <sub>2</sub>	d)	LiAlH <sub>4</sub> in ether	
2. Ans	swer any seven of the following:			14
i)	Give the principle of Lassaigne's	stes	st.	
ii)	State and explain Huckel's rule.			
iii)	What are dienes? Gives their ge	ner	al formula.	
iv)	Define molecular and Empirical fo	orm	nula.	

- v) Draw resonating structure of benzene.
- vi) Define the term chromophore and auxochrome.
- vii) How will you prepare cyclopropane by internal Wurtz reaction?
- viii) What is mean by Vat dye?
  - ix) State and explain Kolbe's reaction for preparation of alkane.
- 3. A) Write short notes on any two:

- i) Molecular orbital theory of benzene.
- ii) Explain Witt's theory.
- iii) How will you detect nitrogen by Kjeldahal's method?
- B) What are qualities of good drug?

4

4. Answer any two of the following:

14

- i) Write classification of drug based on therapeutical action.
- ii) Describe the various types of dienes and illustrate the reaction of 1, 3 butadiene.
- iii) Determination of molecular weight of an acid by titration method.
- 5. Answer any two of following:

- i) Explain combustion method for detection of carbon and hydrogen and calculate % of carbon when  $1.8 \times 10^{-4}$  Kg of an organic compound subjected to combustion method produced  $2.64 \times 10^{-4}$  Kg of CO<sub>2</sub>.
- ii) Write the classification of dyes based on their constitution.
- iii) What is meant by dehydrohalogenation? Explain E<sup>1</sup> and E<sup>2</sup> mechanism for dehydrohalogenation of lower alkyl halides.

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B.Se		- I) (Entreprene INDUSTRIAL M Fundamentals	IICR	OBIOLOGY	Examination, 20	018
-	d Date : Thursday, 10.30 a.m. to 1.00				Max. Mar	ks : 70
	2	1) <b>All</b> questions a 2) Figures to the <b>I</b> 3) Draw <b>neat</b> labe	right i	indicate <b>full</b> m		
1. Ch	oose the correct al	ternative and rewr	rite the	e sentence ag	ain.	14
i)	Father of Medical a) Pasteur	•	c)	Koch	d) Hock	
ii)	The main feature a) absence of nuc c) absence of loc	clear material	b)	absence of nu	uclear envelope rotein synthesis	
iii)	'Swan necked flas a) Louis Pasteur c) Edward Jenner		b)	cientist Robert Koch Joseph Lister		
iv)	Antibiotic penicilling a) Robert Koch c) Joseph Lister	n was discovered	b)	Alexander Fle Edward Jenne		
v)	1 A $^{\circ}$ is equal to a) $10^{-9}$ nm	b) 10 <sup>-6</sup> nm	c)	10 <sup>–3</sup> nm	d) 10 <sup>-1</sup> nm	
vi)	a) Rhizobium c) Streptococcus	•	b)	hism type of n Bacillus Salmonella	norphology.	
vii)	The flagellum of G body. a) 1	ram positive bacte b) 2	eria po c)		rings in bas	sal
	ω, ι	5) <u>L</u>	0)	•	ω <sub>j</sub> -1	P.T.O.



viii)	Cell wall of Gram ne a) 90	egative bacteria co b) 60				
ix)	Study of acid and classification.	I gas production	is	арр	roach to bacteria	I
	a) morphological	b) cultural	c)	genetic	d) biochemical	
x)	is the	method of assignir	ng r	names to organi	sms.	
	a) Identification		b)	Nomenclature		
	c) Classification		d)	None of these		
xi)	Autoclave works on	the principle of		steriliz	ation.	
	a) chemical	b) gaseous	c)	moist heat	d) dry heat	
xii)	is the	antimicrobial age	nt iı	n ophthalmic pre	eparation.	
	a) Silver nitrate		b)	Mercuric chlori	de	
	c) Copper sulphate	•	d)	Ethylene oxide		
xiii)	Algae are	type of organisms	•			
	a) chemoautotroph		b)	chemoheterotro	oph	
	c) photoautotroph		d)	photochemotro	ph	
xiv)	is the	example of live ce	ell c	ounting method		
	a) Microscopy		b)	Standard plate	count	
	c) Flow cytometry		d)	Nephelometry		
2. Def	ine and explain <b>any</b>	<b>seven</b> of the follo	win	g:		14
i)	Tyndallization					
ii)	Milk					
iii)	Virus					
iv)	Mesosome					
v)	Slime layer					
vi)	Morphology					
vii)	Desiccation					
viii)	Pasteurization					
ix)	Auxotroph.				•	Set P
					•	

3	A)	Answer any	<b>two</b> of th	e following
o.	$\neg$	Allowelally	, LVV C OI III	

- i) Give the general principles of microbial Taxonomy.
- ii) Discuss in brief control of microbes using chemical agents.
- iii) Explain the role of chemostat and turbidostat in continuous growth.

-3-

B) Explain the structure of Cell membrane.

4

#### 4. Answer any two of the following:

14

- i) What is Growth? Explain Bacterial Growth phases in detail.
- ii) What is Sterilization? Explain control of microbes using heat treatment.
- iii) Explain morphological characteristics of bacteria with examples.

#### 5. Answer any two of the following:

- i) Explain in detail arrangement, structure and function of Bacterial flagella.
- ii) Take account of the contribution of Louis Pasteur and Robert Koch.
- iii) Enlist the applications of various branches of Microbiology.



Seat	Set	Р
No.		•

## B.Sc. – I (Entrepreneurship) (CBCS) (Semester – I) Examination, 2018 INDUSTRIAL MICROBIOLOGY – I Basic Techniques in Microbiology

	Basic	C Techniques in M	Micı	robiology		
-	d Date : Friday, 6-4-20 10.30 a.m. to 1.00 p.m				Max. Marks : 70	)
	2) Drav	uestions are <b>comp</b> v a <b>neat</b> labeled dia re to the <b>right</b> indic	agra	am <b>wherever</b> i	<del>-</del>	
	write the following sen	tences by choosing	g co	orrect alternativ	ves from given	4
	<ul><li>Father of Microbiolog</li><li>a) Lister</li><li>c) Louis Pasteur</li><li>The refractive index of</li></ul>		•	A. V. Leeuwer Robert Koch	nhoek	
,	a) 0.50	b) 0.75	c)	1.0	d) 1.25	
iii)	mycobacterium. a) Crystal violet c) Methylene blue	ed as a secondary	b)	in in acid fast Giemsa Carbol fuchsir		
iv)	is use	d for cell enumerati	ion.			
	<ul><li>a) Coulter Counter</li><li>c) Chromatographic</li></ul>		,	Calibrator Refractometer	r	
v)	<ul><li>Endospore can be state</li><li>a) Safranine</li><li>c) Methylene blue</li></ul>	ained with	,	 Crystal violet ZNCF		
vi)	Solidifying agent com a) Agar-agar	monly used in med b) Silica gel			d) Soft gel	
vii)	Total viable plate cou a) Spread plate c) Both a) and b)	nt can be obtained	b)	ng Pour plate Hemocytomet		



viii)	All the following are components of compound microscope expect						
	a) Stage clips			b) Fine adjustment			
	c) Electron gun		d)	Binocular eye	e pi	ece	
ix)	Electron microscope	gives magnificatior	up	to		_	
	a) 100 X	b) 2000 X	c)	50,000 X	d)	2,00,000 X	
x)	Acid fast staining is a	n example of		staining	J.		
	a) Simple	b) Monochrome	c)	Differential	d)	None of these	)
xi)	is sele	ective component f	or (	coliforms used	l in	MacConkeys	
	agar.		h)	Pontono			
	<ul><li>a) NaCl</li><li>c) Sodium taurochola</li></ul>	ate	-	Peptone Agar			
vii)	The characteristic sha		•	•	180	of	
XII)	a) Capsule	pe of the bacteria is		Cell wall		OI	
	c) Cell membrane		,	Slime layer			
xiii)	The resolution power	of the compound r	nicı	oscope is			
	a) 0.2 micron		b)	0.2 millimeter	r		
	c) 0.2 Angstrom		d)	0.2 centimete	er		
xiv)	Primary stain is used	in Gram staining is	<b>3</b>				
	a) lodine	b) Crystal Violet	c)	Safranin	d)	Acetocarmine	)
2. An:	swer <b>any seven</b> of the	e following:					14
i)	Define differential sta	ining.					
ii)	What is differential m	edia ?					
iii)	Enlist example of acid	dic stain.					
iv)	Applications of SEM.						
v)	Define non-living med	dia.					
vi)	Neubaurs chamber.						
vii)	TVC.						
viii)	Enlist component of S	Semi-synthetic med	lia.				
ix)	Role of Bile salt.						

i) Describe in brief acid fast staining.

- ii) Discuss in detail construction and working of electron microscope.
- iii) Describe in detail indirect methods of cell enumeration.
- B) Give a detailed account on component of culture media.

4

4. Answer any two of the following:

14

- i) Describe in detail cultivation and isolation techniques.
- ii) Define stain and explain in detail classification of stain.
- iii) Explain in detail non-living media.
- 5. Answer any two of the following:

- i) Write in detail Gram staining.
- ii) Discuss in detail living media.
- iii) Describe in detail construction, working and principal of bright field microscopy.

**SLR-SB - 9** 

Seat		
No.	Set	P
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### B.Sc. – I (Semester – I) (Entrepreneurship) (CBCS) Examination, 2018 CELL BIOLOGY Industrial Biotechnology (Paper – I)

	ilidu	Sulai L	norecumolo	jy (Papel – I)	
•	e : Saturday, 7 a.m. to 1.00 p				Max. Marks: 70
Instructio	2) Figur	es to th	beled diagran e <b>right</b> indicat s are <b>compuls</b>		cessary.
1. Rewrite	he correct alte	rnatives	from the follo	wing:	14
1) Phag	ocytosis was fi	st of all	seen by		
a) Hu	ıxley	b) Met	chinkoff c)	Haeckel	d) Strasburg
2) Cell n	nembrane is ab	sent in			
a) Sp	erm	b) Lys	osomes c)	Bacteria	d) None of these
	centromere is portion of chromosome		at the tip of ch	romosome it is	called as
,	etacentric locentric		,	Acrocentric Subcentric	
4) Which	n of the followin	ng is sh	ortest phase ir	n mitosis	
•	etaphase aphase		,	Telophase Prophase	
a) is b) ha c) lie	fluid mosaic meandwiched be sometimes and some some some some some some some some	tween pedded	orotein layers in it otein	phospholipid bil	ayer
6) Plasm	a membrane is	selective	ely permeable. I	t shows maximur	n permeability to
a) K <sup>+</sup>		b) Na <sup>+</sup>	c)	NH <sub>4</sub> <sup>+</sup>	d) Ca <sup>++</sup>
7) The e	ndoplasmic ret	iculum	in the cells of	adipose tissue i	s in the form of
a) Va	cuoles	b) Tub	ules c)	Sacs	d) Nucleus

8)		biomo	lecule regularly mo	ves	s from nucleus t	o cytoplasm.	
	a)	Glycogen	b) RNA	c)	Cholesterol	d) DNA	
9)			ar organelles break	(S	down complex	macromolecules	
			rides and proteins.				
	-	Golgi complex		,	Mitochondria	aamia ratioulum	
10)		Lysosome	watial			asmic reticulum	
10)		ougn endopiasmic Ribosomes	reticulum often cor		Centrioles		
	,	Golgi bodies		,	Lysosome		
11)		cteria are the exa	imples for	ω,	_,		
,		Prokaryotic cell		b)	Plastids		
	-	Eukaryotic cell		•	Organelles		
12)	His	stone protein is sy	nthesized in eukar	yot	ic cell during		
	a)	Metaphase		b)	S phase		
	c)	M phase		d)	G1 stage of pr	ophase	
13)		ater enters in the	cell by				
	•	Endosmosis		-	Phagocytosis		
4.4)		Pinocytosis	-	•	All of the above	е	
14)			o known as power l b) Cytoplasm			d) Mitochondria	
		•				d) Millochondha	
2. Wı	rite	in brief about <b>any</b>	seven of the follow	win	g:		14
1)	Eu	chromatin.					
2)	Fu	nctions of Lysoso	me.				
3)	Ac	tive transport.					
4)	Ch	aracteristics of C	hromosome.				
5)	Pir	nocytosis.					
6)	Ce	II senescence.					
7)	Fa	cilitated diffusion.					
8)	Str	ructure of ribosom	ie.				
9)	Pri	inciples of cell the	ory.				



material.

3.	A) Answer <b>any two</b> of the following :	10
	1) Give an account on lipid biomembrane.	
	2) Write a note on Biochemical composition of cell.	
	3) Explain the structure and functions of Lysosome.	
	B) Describe structure and functions of plant cell wall.	4
4.	Answer any two of the following:	14
	1) Write a detail note structure and functions of chromosome.	
	2) Write a note on mitochondria.	
	3) Describe Mitosis in detail.	
5.	Answer any two of the following:	14
	1) Explain in detail the difference between prokaryotic and eukaryotic cell.	
	2) Give a detailed account on Meiosis.	
	3) Write a detailed note on Chemical nature and structure of Genetic	

**SLR-SB - 10** 

Seat	Set	D
No.	Set	

#### B.Sc. I (Entrepreneurship) (Semester – I) (CBCS) Examination, 2018 Industrial Biotechnology ANIMAL AND PLANT PHYSIOLOGY (Paper – II)

	ANIMAL A	AND PLANT PH	IYSIOLOGY (Pa	per – II)	
-	nd Date : Monday, 9- 10.30 a.m. to 1.00 p			Max. Marks :	70
1. Mu	ultiple choice questic	ons.			14
1)	The energy for pho	tosynthesis is deri	ved from		
	A) Spectrum	B) Gama rays	C) Light	D) Radio wave	
2)	The plastids in gree	en plants which co	ntain chlorophyll ar	e known as	
	A) Chloroplast	B) Mitochondria	C) Golgi bodies	D) Lipids	
3) The are the chlorophyll pigments mainly present in green pl BGA.					
	A) Chlophyll a and	b	B) Xanthophyll ar	nd Carotein	
	C) Chlorophyll d ar	nd e	D) None of these		
4)	is the en	npirical formula for	chlorophyll A.		
	A) HCI		B) CaCl <sub>2</sub>		
	C) NaCl		D) $C_{55}H_{72}O_5N_4N_5$	<b>1</b> g	
5)	is called f	ather of plant tissu	e culture.		
	A) Bonner	B) Haberlandt	C) Laibach	D) Robert coach	
6)	is the ba	sic component of f	or the growth.		
	A) Iron	B) Calcium	C) Helium	D) Nitrogen	
7)	is the t		lectron from PS-II	in non cyclic	
	A) Ubiquanone	B) Cytochrome	C) Feredoxin	D) Plastocyanin	

2.

8)	) The source of CO <sub>2</sub> during C <sub>4</sub> cycle in calvin cycle is						
	A) Malic acid	B) PEP	C)	RuBp	D) All of these		
9)	Heart is made up of	tissue	·.				
	A) Striated muscle		B)	Cardiac muscl	е		
	C) Skeletal muscle		D)	Nervous cells			
10)	The undifferentiated	d mass of cell grow	n ir	ıcult	ure.		
	A) Media	B) Callus	C)	Explants	D) Plantlets		
11)	Kupffer cells are ch	aracteristics of					
	A) Somach	B) Intestine	C)	Pancreases	D) Liver		
12)	Solar Energy is use	ed for the synthesis	of	ATP molecules	are called as		
	A) Photosynthesis		B)	Photophospho	rylation		
	C) Oxidation		D)	Reduction			
13)	Bones are	_ type of tissue.					
	A) Epithelial	B) Compound	C)	Connective	D) Cuboidal		
14)	The long form of MS	S media is					
	A) Murashige and S	_		Murashige and	Smith		
	C) Michel and Skoo	og	D)	None of these			
An	swer <b>any seven</b> of t	he following.				14	
1)	Draw a neat labeled	d diagram of V.S. o	f te	eth.			
2)	Give the function of	epithelial tissue.					
3)	What are the advan	tages of serum me	edia	?			
4)	Which is the reaction	on center in photos	ynt	hetic pigment s	ystem?		
5)	Give the origin and	location of nervou	s tis	ssue.			
6)	Define- (a) tissue co	ulture (b) explant.					
7)	What is the function	of salivary gland	?				



- 8) Define photosynthesis with balanced chemical reaction.
  9) Explain the role of vitamins.
  3. A) Answer any two of the following.

  1) Explain the structure of tongue and oesophagous.

  2) Give origin and location of muscular tissue (with diagram).

  3) Explain the role of nitrogen in growth.
  B) Give the applications of animal tissue culture.
  4
  4. Answer any two of the following.
  14
  1) Explain structure of stomach and its function.
  2) Explain CAM mechanism.
  3) Explain synthetic media in animal tissue culture.
- 5. Answer **any two** of the following.
  - 1) Explain photosystem and process of non cyclic photophosphorylation.
  - 2) Give a brief account epithelial tissue.
  - 3) Explain plant tissue culture and its application.

Seat	Sat	D
No.	Set	

## B.Sc. (Part – I) (Entrepreneurship) (Semester – II) (CBCS Pattern) (Old) Examination, 2018 ENGLISH (Compulsory) On Track – English Skills for Success

•	d Date : Thursday, 12-4-2018 10.30 a.m. to 1.00 p.m.			Max.Marks	: 70	
	·					
Ins	structions: 1) All questions are c					
	2) Figures to the <b>righ</b> t	t in	dicate <b>full</b> ma	arks.		
1. Re	write the following sentences by cl	hoc	sing the corr	ect alternatives :	14	
1)	According to Nani Palkhivala		is the eigh	th deadly sin.		
	a) Hatred b) Anger	c)	Ignorance	d) Ideology		
2)	have created more deat	hs a	and human mi	sery than all the weapons		
	of mass destruction.					
	a) Strife	b)	War			
	c) Human rights violations	d)	None of the	above		
3)	Vivekananda's first night in Chicago	o a	fter having me	et J. H. Wright was spent		
	a) At the house of Wright's friend	lb)	In a wooden	cabin		
	c) In a big, empty box	d)	None of the	above		
4)	Who represented Theosophical Society in the parliament of religion at Chicago?					
	a) Vivekanand	b)	Gandhi			
	c) Dharmapala	d)	Chakravarti	and Annie Besant		
5)	Which of the following place did 'America?	Viv	ekananda no	t pass while travelling to		
	a) Ceylon b) Singapore	c)	Australia	d) Penang		
6)	Dr. Kalam had testeds	Suc	cessfully in F	rance.		
	a) SLV-3 apogee motor	b)	V-2 Missile			
	c) Jupiter Missile	d)	None of the	above		
7)	Who suffer from Not Invented He	re (	Complex (NIF	H) ?		
•	a) Germans b) Americans	c)	Russians	d) French		

SLR-SB – 11	-2-	
8) The poem 'Brahma' i	is written by	

|--|--|--|--|--|--|--|--|--|--|--|--|

R-SE	B <b>–</b> 11	-	2-			
8)	The poem 'Brahma	a' is written by				
	a) Robert Hayden		b)	W. B. Yeats		
	c) Sarojini Naidu		d)	Ralph Waldo	Er	nerson
9)	The term 'bubble h	ouse' refers to				
	a) The moon	b) The sun	c)	Stars	d)	The mars
10)	Vivekananda reach	ned Chicago in	the	e month of		
	a) September	b) December	c)	February	d)	July
11)	Shanta and Kamal dog for them.	have gone on	a h	noliday. We aı	e ta	aking care of
	a) Its	b) His	c)	Their	d)	There
12)	The words 'reveal	and conceal' a	re			
	a) Antonyms		b)	Synonyms		
	c) Homographs		d)	Homophone	S	
13)	The words 'die and	l dye' are				
	a) Antonyms		b)	Synonyms		
	c) Homographs		d)	Homophone	S	
14)	Savita is the	$_{}$ of all my f	rier	nds.		
	a) More childish		b)	Most childish	1	
	c) Childish		d)	None of the	abo	ove
Ans	swer <b>any seven</b> of	the following q	ues	stions:		
4)	Who was Wornhor	von Broup 2				

2.

- Who was Wernher von Braun ?
- 2) Why did Dr. Kalam question the term 'workaholic'?
- 3) What is the first requirement to get into 'Flow'?
- 4) Which is the oldest human rights organization? When was it founded?
- 5) How did people respond to Vivekananda's opening words at parliament of religion?
- 6) Who introduced Vivekananda to J. H. Wright ? How did J. H. Wright help Vivekananda?
- 7) Which is the most dangerous animal in the world? How does Palkhivala prove it?
- 8) Why does Palkhivala say that world continues to be 'less than half free'?



3. A) Write short answers on any two of the following:

8

- 1) What is the central theme of the poem 'Brahma'?
- 2) Does our perception of the moon has changed? How?
- 3) How does Emerson use contrast in the poem effectively to convey his message?
- B) Answer any two of the following questions briefly:

6

- 1) What are the components of an official formal email letter?
- 2) What is a C.V.?
- 3) What are the features of a notice?
- 4. Answer any one of the following question:

- A) You are secretary of English Literary Association in your college. The association is organising a national level elocution competition for college students. Prepare the notice and agenda for the meeting of the association.
- B) You are Sunita Sharma, a postgraduate in Physics. Write an email application letter in response to an advertisement in the newspaper for the post of assistant professor in physics to the Principal, Modern College of Arts and Science, Mumbai.
- You are postgraduate in Commerce. Prepare a C. V. for the post of Assistant
   Manager in a Co-operative bank.

**SLR-SB - 12** 

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Seat	Set	Р
No.	L	

### B.Sc. – I (Entrepreneurship) (Semester – II) (New CBCS) Examination, 2018 ENGLISH COMPULSORY Golden Petals

•	d Date : Thursda 10.30 a.m. to 1.0	• •		Max. Maı	'ks : 70
		() <b>All</b> questions a (2) Figures to the l	re <b>compulsory</b> . r <b>ight</b> indicate <b>full</b> i	marks.	
1. Re	write the followi	ng sentences by	choosing the corr	ect option given belov	v: <b>1</b> 4
1)	Letter to a tea	cher was written	by	_ students.	
	a) 7	b) 8	c) 5	d) 3	
2)	'My Duty to M	y Neighbour' is ta	aken from the boo	k	
	a) The Value	of Life	b) The Value	of Society	
	c) The Value	of Neighbour	d) The Value	of Relations	
3)	Jim Corbett wa	s born in			
	a) 1875	b) 1865	c) 1855	d) 1845	
4)	irritation of his		n call did the auth	or use to calm down t	:he
	a) Cat	b) Dog	c) Langur	d) Monkey	
5)	The English tr	anslation of 'Lette	er to a Teacher' w	as published in	
	a) 1970	b) 1960	c) 1965	d) 1955	
6)	The authors of families.	f the book 'Letter	to a Teacher' belo	nged to	
	a) Affluent	b) Middle cla	ass c) Peasant	d) Poor	
7)	In Party Council.		Barker was electe	d as a member of Libe	ral
	a) 1937	b) 1939	c) 1938	d) 1936	



	8)	The grass plot wa	s of	square feet.			
		a) 19	b) 20	c) 30	d) 25		
	9)	Sarojini Naidu wa	as the first woma	an President of	party.		
		a) Jan Sangh		b) Janta Party			
		c) Lok Dal		d) Indian Nationa	al Congress		
	10)	Maya Angelou wa	as an	poetess.			
		a) American	b) African	c) Asian	d) European		
	11)	<u> </u>	your hands for t	he exercise.			
		a) Raise	b) Raze	c) Redge	d) Ridge		
	12)	Sachin doesn't lie	e, he would call	a spade a			
		a) Tool	b) Machine	c) Spade	d) Hammer		
	13)	A person who ha	s the fear of wa	ter, that fear is call	ed		
		a) Zoophobia	b) Demophob	ia c) Bathophobia	d) Hydrophobia		
	14)	It is	to bribe any	body.			
		a) Illicit	b) Elicit	c) Ellicit	d) Aellicit		
2.	An	swer the following	questions in <b>2</b> to	3 sentences each	(any seven) :	14	
	1)	In what way is the	school different	from the students h	nomes?		
	2)	Where do the stud	lents go when th	ney are failed out o	of school?		
	3)	What is the claim of a larger piety?					
	4)	What are our dutie	s towards a neig	hbour ?			
	5)	Why can't tigers lie in one position for long?					
	6)	What can be assu	med from a tige	er leaving his kill in	the open ?		
	7)	Why did Jim Corbe	ett regret carryin	g an unlocked rifle	?		
	8)	What did Jim Corb	ett do after killin	g the tiger ?			
3.	A)	Answer the followi	ng in about <b>fifty</b>	words (any two):		8	
		1) What is an Em	nail and what typ	e of language is us	sed for writing it?		
		2) Write a short r	note on different	t types of blogs.			
		3) Write a short r	note on how to v	write blogs			



B)	Answer any	<b>/ two</b> with	n reference t	to context :
----	------------	-------------------	---------------	--------------

- Weavers, weaving solemn and still,
   What do you weave in the moon light chill?
   White as a feather and white as a cloud.
- I can accept the idea of my own demise,
   but I am unable to accept the death of any one else.
- 3) Weavers, weaving at break of day, Why do you weave a garment so gay? Blue as the wing of a halcyon wild.

#### 4. Answer any one of the following:

14

- 1) Write in detail how you will prepare for an interview.
- 2) Write a script of group discussion on the topic-cleanliness movement in India, in which Rajesh, Shruti, Mohan and Noor participate.
- 5. Answer the following question:

14

You are the Secretary of Mahavir Garments Ltd. The meeting of the office-bearers of the company is scheduled for the 10<sup>th</sup> of the next month. Prepare an agenda for the meeting then draft the minutes of the meeting using the standard format.

1	SLR-SB – 13
Seat No.	Set P
, , , ,	neurship) (CBCS Pattern) Examination, 2018
PRINCIPLES OF MARKETING AN	ID MANAGEMENT ACCOUNTING (Paper – I)
Day and Date : Friday, 13-4-2018 Time : 10.30 a.m. to 1.00 p.m.	Max. Marks : 70
<b>N.B.</b> : 1) <b>All</b> questions a 2) Figures to the <b>I</b>	re <b>compulsory</b> . r <b>ight</b> indicate <b>full</b> marks.
1. Multiple choice question.	14
1) 'Natural forces or factors' are o	considered in company's environment called
a) Macro environment	b) Microenvironment
c) Both a and b	d) None of above
2) Economies consuming their or	wn industrial outputs are known as
a) subsistence economies	b) industrial economies
c) developing economies	d) none of above
<ol><li>Markets in which goods are bo and households are called</li></ol>	ought for personal consumption by individuals
a) business markets	b) international markets
c) consumer markets	d) government markets
4) Current assets are also referre	ed to as
a) Working capital	b) Investment

d) Livestock

b) Financial ratio

d) None of the above

b) preference analysis

d) returning analysis

5) When the concept of ratio is defined in respected to the items shown in the

6) A technique uses in comparative analysis of financial statement is

c) Inventory

a) Accounting ratio

a) graphical analysis

c) common size analysis

c) Costing ratio

financial statements, it is termed as

-2-



.,	) Markets in which market offerings are bought from sellers for reselling purpose are known as			
	a) business markets	b) reseller markets		
	c) government markets	d) international markets		
8)	Segmentation of international market example of	ets on basis of monetary regulations is an		
	a) geographic location	b) cultural factors		
	c) economic factors	d) political and legal factors		
9)	Targeting affluent customers with lu	xurious goods is an example of		
	a) geographic segmentation	b) income segmentation		
	c) psychographic segmentation	d) behavioural segmentation		
10)	The relationship between two finance	ial variables can be expressed in		
	a) Pure ratio	b) Percentage		
	c) Rate or time	d) Either of the above		
14\				
ı ı <i>)</i>	Consumers' primary motivation doe	s not include		
11)	a) ideals b) leadership	s not include c) achievement d) self-expression		
	•	c) achievement d) self-expression		
	a) ideals b) leadership	c) achievement d) self-expression		
	<ul><li>a) ideals</li><li>b) leadership</li><li>Second step in marketing research</li><li>a) define research objectives</li></ul>	c) achievement d) self-expression process is		
12)	<ul><li>a) ideals</li><li>b) leadership</li><li>Second step in marketing research</li><li>a) define research objectives</li></ul>	c) achievement d) self-expression process is b) develop research plan d) none of above		
12)	<ul> <li>a) ideals</li> <li>b) leadership</li> <li>Second step in marketing research</li> <li>a) define research objectives</li> <li>c) implement research plan</li> </ul>	c) achievement d) self-expression process is b) develop research plan d) none of above		
12)	<ul> <li>a) ideals</li> <li>b) leadership</li> <li>Second step in marketing research</li> <li>a) define research objectives</li> <li>c) implement research plan</li> <li>Low price for earnings ratio is result</li> </ul>	c) achievement d) self-expression process is b) develop research plan d) none of above		
12)	<ul> <li>a) ideals</li> <li>b) leadership</li> <li>Second step in marketing research</li> <li>a) define research objectives</li> <li>c) implement research plan</li> <li>Low price for earnings ratio is result</li> <li>a) low riskier firms</li> </ul>	c) achievement d) self-expression process is b) develop research plan d) none of above of b) high riskier firms d) high marginal rate		
12)	<ul> <li>a) ideals</li> <li>b) leadership</li> <li>Second step in marketing research</li> <li>a) define research objectives</li> <li>c) implement research plan</li> <li>Low price for earnings ratio is result</li> <li>a) low riskier firms</li> <li>c) low dividends paid</li> </ul>	c) achievement d) self-expression process is b) develop research plan d) none of above of b) high riskier firms d) high marginal rate a ratio may be taken as		
12)	<ul> <li>a) ideals</li> <li>b) leadership</li> <li>Second step in marketing research</li> <li>a) define research objectives</li> <li>c) implement research plan</li> <li>Low price for earnings ratio is result</li> <li>a) low riskier firms</li> <li>c) low dividends paid</li> <li>Profit for the objective of calculating</li> </ul>	c) achievement d) self-expression process is b) develop research plan d) none of above of b) high riskier firms d) high marginal rate a ratio may be taken as		
12)	<ul> <li>a) ideals</li> <li>b) leadership</li> <li>Second step in marketing research</li> <li>a) define research objectives</li> <li>c) implement research plan</li> <li>Low price for earnings ratio is result</li> <li>a) low riskier firms</li> <li>c) low dividends paid</li> <li>Profit for the objective of calculating</li> <li>a) Profit before tax but after interest</li> </ul>	c) achievement d) self-expression process is b) develop research plan d) none of above of b) high riskier firms d) high marginal rate a ratio may be taken as		

2.	Answer the following questions. (any 7)	14
	1) Define Dual Aspect concept.	
	2) Meaning of current ratio.	
	3) Define of marketing.	
	4) Nature of marketing environment.	
	5) Origin of marketing.	
	6) Limitations of marketing research.	
	7) Concept of Convention of consistency.	
	8) Object of Evidence Concept.	
	9) Define Market segmentation.	
3.	A) Write short note any 2.	10
	1) Difference between current assets and current liability.	
	2) Marketing research process.	
	3) Types of marketing.	
	B) Difference between Selling Vs Marketing.	4
4.	Attempt any two of the following.	14
	1) Write down steps of working capital.	
	2) Write down need and importance of environment analysis.	
	3) Explain analysis and interpretation of financial statements.	
5.	Attempt any two of the following.	14
	1) Explain scope and limitations of marketing research.	
	2) Explain Nature and scope of management account.	
	3) Write down criteria for market segmentation.	


Seat		_
No.	Set	P

## B.Sc. – I (Entrepreneurship) (Semester – II) (CBCS) Examination, 2018 Cost Accounting and Project Management ENTREPRENEURSHIP SCIENCE (Paper – II)

•	d Date : Monday, 16-04-2018		Max. Marks: 70
Time: 1	0.30 a.m. to 1.00 p.m.		
1. Cho	pose the correct answer from given	alternatives :	14
1)	Direct Material + Direct Labour + D	Direct Expenses =	
ŕ	a) Factory cost	b) Cost of goods sold	
	c) Prime cost	d) Selling price	
2)	is the process o	f determining and accumul	ating the cost
	of product or activity.		
	a) Cost Accounting		
	b) Financial Accounting		
	c) Management Accounting		
	d) All the above		
3)		taining costs of an individ	ual job, work
	order or project separately.  a) Process costing	b) Operating costing	
	c) Uniform costing	d) Job costing	
4)	Salary paid to factory manager is a	,	
7)	a) Factory overhead	an item of	
	b) Selling and distribution overhea	ad	
	c) Office and administrative overh		
	d) None of the above		
5)	Delivery van expenses is an item of	of	
	a) Prime cost		
	b) Factory cost		
	c) Office and administrative overh		
	d) Selling and distribution overhea	ıds	

SLR-SI	B – 14	2-	
6)	Some units are not completed in particles a) Raw material b) Work in process c) Finished goods d) None of the above	process, they are known a	S
7)	<ul><li>Which of the following is not a me</li><li>a) Contract costing</li><li>c) Batch costing</li></ul>	=	
8)	garment manufactures, spare enterprises etc.  a) Contract costing  c) Batch costing		
9)	method is	,	es.
- /	<ul><li>a) Process costing</li><li>c) Unit costing</li></ul>	<u>-</u>	
10)	Small Scale Industry is a manufact plant and machineries does not exa.) 1 crores b) 5 crores	ceed Rs.	only.
11)	Projects are i a) Permanent c) Flexible		
12)	SSI <sub>s</sub> denotes for a) Services Sector Industry b) Secondary Service Industry c) Small Scale Industry d) None of the above		
13)	is a document that a team should take to complete it.	·	
		c) Project report d) All t	the above
14)	First stage of project life cycle is	la V. Ladalla ali e e e la	
	<ul><li>a) Planning stage</li><li>c) Execution stage</li></ul>	<ul><li>b) Initiation stage</li><li>d) Closure stage</li></ul>	
	U, ENCOURIOR SLAYE	a, Ciosule stage	

2. Solve any seven from the following:

14

- 1) What is cost?
- 2) What is financial accounting?
- 3) Define job costing.
- 4) What is cost sheet?
- 5) Define batch costing.
- 6) What is project management?
- 7) Define micro industry.
- 8) What is project identification?
- 9) Sources of working capital.
- 3. A) Write note on any two from the following:

10

- 1) Objectives of cost accounting.
- 2) Advantages and disadvantages of job cost sheet.
- 3) Contents of projects report.
- B) Briefly explain objectives of small scale industries.

4

4. Solve any two from the following:

14

- 1) Define project. Explain types of projects.
- 2) Problems of Small Scale Industries.
- 3) Following information is available for job no. 1234, which is being produced at the request of a customer.

	Dept. A	Dept. B	Dept. C
Material consumed (Rs.)	4,000	1,000	1,500
Direct labour			
Wages rate per hour (Rs.)	3	4	5
Direct labour hours	300	200	400

In accordance with the company policy the following are chargeable to jobs:

Fixed factory overheads – Rs. 5 per direct labour hour

Fixed administrative overheads – 80% of works cost.

Profit mark up - 20% margin on selling price.

You are required to calculate the total cost and selling price of job no. 1234.



5. Solve **any two** from the following:

14

- 1) Explain types of cost.
- 2) Explain role of small entrepreneurship in economic development.
- 3) From the following particulars calculate:
  - a) Prime cost
  - b) Factory cost
  - c) Cost of goods sold
  - d) Cost of sale
  - e) Profit

Sourabh Industries manufacture a product, the information available from cost records for the year ended 31st December 2017 was as follows:

	Rs.
Direct Materials	8,00,000
Direct Wages	3,00,000
Stock of finished goods (1-1-2017)	50,000
Stock of Raw Material (1-1-2017)	1,00,000
Stock of Work in progress (1-1-2017)	40,000
Stock of finished goods (31-12-2017)	60,000
Stock of Raw Material (31-12-2017)	80,000
Stock of Work in progress (31-12-2017)	70,000
Carriage Inward	40,000
Indirect Wages	90,000
Power and Fuel	1,75,000
Factory Rent	1,00,000
Indirect Material	1,75,000
Office and Administrative overheads	80,000
Selling and Distribution overheads	1,00,000
Sales	20,00,000

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### B.Sc. – I Entrepreneurship (Semester – II) (CBCS) Examination, 2018 Industrial Chemistry (Paper – I) FUNDAMENTALS OF PHYSICAL CHEMISTRY

FUNDAMENTALS OF PHYSICAL CHEMISTRY				
Day and Date : Tuesday, 17-4-2018 Time : 10.30 a.m. to 1.00 p.m.	Max. Marks : 70			
necessary.	re compulsory.  led diagrams and write equations wherever  right indicate full marks.			
<ol> <li>Select the most correct alternative f the sentence.</li> </ol>	rom among those given below and rewrite			
a) zero b) first	H <sub>2</sub> O <sub>2</sub> is order reaction. c) second d) third			
<ul><li>ii) Molecularity value may not be _</li><li>a) zero</li><li>c) infinity</li></ul>	<ul><li>b) negative</li><li>d) zero, negative, infinity</li></ul>			
<ul><li>iii) A + B + C → products is</li><li>a) unimolecular</li><li>c) tri-molecular</li></ul>	b) bimolecular d) tetra molecular			
<ul><li>iv) The half life period of</li><li>concentration.</li><li>a) zero</li><li>b) first</li></ul>	reaction is inversely proportional to initial  c) second d) third			
<ul> <li>v) The unit of surface tension is</li> <li>a) dyne cm</li> <li>c) dyne<sup>-1</sup> cm</li> </ul>				
vi) Molecular weight is a) additive c) constitutive	_ property. b) colligative d) all of these			

vii)	Small droplets are	_ in shape is due to minimum surface area.	
	a) triangular	b) square	
	c) hexagonal	d) spherical	
viii)	The compressibility factor 'Z' for	ideal gas is	
	a) zero	b) less than one	
	c) greater than one	d) equal to one	
ix)	The critical temperature is denote	ed by	
	a) T b) Tc	c) CT d) Pc	
x)	The number of moles of solute per	1000 gm of solvent is called as	
	a) molarity	b) molality	
	c) mole fraction	d) normality	
xi)	The unit of normality of solution is	s	
	a) moles/Kg	b) moles/liter	
	c) gram equivalent/liter	d) none of these	
xii)	Vander Waal's equation is used	to explain the behavior of	
	a) mixture of gases	b) real gases	
	c) ideal gases	d) perfect gases	
xiii)	The ratio of weight of solute to the	weight of solution is called as	
	a) Weight fraction of solute	b) Weight fraction of solvent	
	c) % composition by weight	d) % composition by volume	
xiv)	The unit of first order rate consta		
	a) mole $dm^{-3}s^{-1}$	b) $mole^{-1} dm^{-3} s^{-1}$	
	c) $s^{-1}$	d) s <sup>1</sup>	
2. Ans	swer any seven of the following:		14
i)	Define :		
	a) Solute		
	b) Molarity.		
ii)	Give one example of second ord	er reaction.	
iii)	What do you mean by order of re	eaction ?	
-	Explain additive property with ex		
,	. ' ' '	•	



3.

4.

5.

	-3- <b>SL</b>	R-SB – 15
v)	Define ideal gas and non ideal gas.	
vi)	Define co-efficient of viscosity.	
vii)	What do you mean by Rate of reaction?	
∕iii)	Define % composition by volume.	
ix)	State the Joule – Thomson effect.	
A)	Attempt any two of the following:	10
	i) Show that half life period of first order reaction is independent of concentration of a reaction.	initial
	ii) Explain the concept of mole fraction with suitable example.	
	iii) Half life time of first order reaction is 72 minutes. How much time required to complete 90% reaction ?	will be
B)	Explain the concept of parachor.	4
Att	empt any two of the following:	14
i)	Define first order reaction. Derive an expression for a first order reaction.	ction.
ii)	Explain Drop-Weight method for determination of surface tension.	
iii)	Explain Andrew's isotherm for carbon dioxide.	
Att	empt any two of the following:	14
i)	Derive an expression for a second order reaction with equal initial	

concentration of reactant. ii) Define viscosity and explain the method for its determination.

iii) Discuss the deviation from ideal gas behavior.

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## B.Sc. – I (Semester – II) (Entrepreneurship) (CBCS) Examination, 2018 INDUSTRIAL CHEMISTRY (Paper – II) Fundamentals of Analytical Chemistry

						tical Chemist	,		
•		d Date : Wednesda 10.30 a.m. to 1.00 p						Max. Marks	: 70
	1		gur	es to the <b>right</b>	inc	<b>oulsory</b> . dicate <b>full</b> marks entific calculator		allowed.	
		oose the most correntences :	ect a	alternative for <b>e</b>	eac	<b>h</b> of the followin	ıg a	and rewrite the	14
	1)	Fuel having its octa a) 40% octane c) 80% octane	ane	number 60 inc	b)	ites that it conta 60% n-heptane 60% iso-octane	<del>)</del>		
	2)	A polymer which is polymer.  a) Heterogeneous							
	3)	The proteins of mil a) Casein	k c	onsists of main	ly	Glucose	-	Vitamin	
	4)	In adiabatic proces a) v = 0		q = 0	c)	p = 0	d)	w = 0	
	5)	Cis-platin hasa) Antidiabetic			c)	Anticancer	d)	Antitubercular	
	6)	Natural gas contair a) Methane					d)	Ethene	
	7)	The monomer used a) Polyethene					d)	Formaldehyde	
	8)	pH of drinking water a) $1-2$		ccording to ISI 4 – 5		andard is 9 – 10	d)	6 – 9	
	9)	The empirical formula which it is formed.  a) CO		ofpoly Addition		er is same as tha Neutral		f monomer from  Synthetic	
1	0)	The process of ren  a) Distillation	nov		non		,	Deionisation	
1	1)	70% water is comp a) Cow milk		ed in Human	c)	Trees	d)	None of these	

**SLR-SB - 16** 12) The polymer which soften on heating and harden on cooling is a) Thermoplastic b) Rubber c) Elastomer d) Thermosetting 13) The efficiency of heat engine is always b) Greater than 1 a) Equal to 1 d) Zero c) Less than 1 14) The efficiency of engine operating between 973 K and 273 K is a) 7.194 % b) 0.7194 % c) 719.4% d) 71.94% 2. Answer any seven of the following: 14 i) Write methods of adulteration of milk. ii) Define hard water and soft water. iii) State Hess law of mixing. iv) Define calorific value. v) Define monomer and elastomer. vi) What are major nutrients of plants? vii) Define heat capacity. viii) Write types of polymer. ix) Define heat of decomposition. 10 3. A) Write notes on any two: i) Classification of nutrients of plant. ii) Joule-Thomson effect. iii) Hydroforming and Knocking. B) Explain cracking of petroleum. 4 4. Answer **any two** of the following: 14 i) State various statements of second law of thermodynamics. ii) Define petroleum. Explain refining of petroleum. iii) Give synthesis and application of (a) Polyethylene (b) Polystyrene. 5. Answer any two of the following: 14 i) Explain classification of polymer. ii) Give the difference between spontaneous and non-spontanious process. iii) Define antacid. Explain importance of Na<sub>2</sub>CO<sub>3</sub> and Al(OH)<sub>3</sub> as antacid.

Seat No.	Set	Р

### B.Sc. – I (Entrepreneurship) (CBCS) (Semester – II) Examination, 2018 INDUSTRIAL MICROBIOLOGY – I Fundamentals of Industrial Microbiology

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•	d Date : Thursday, 10.30 a.m. to 1.00			Max. Marks : 70
	2)	<b>All</b> questions are <b>c</b> Draw a neat labeled Figures to the <b>righ</b>	d diagram <b>whereve</b>	<b>r</b> necessary.
	write the following low:	sentences by choos	sing correct alternat	ives from given <b>14</b>
i)		ess used at all scale quid or gas, using a	-	parate suspended
	a) Filtration	b) Centrifugation	c) Precipitation	d) Streak
ii)	is us	ed to control the voi	tex formation.	
	a) Agitator	b) Sparger	c) Baffles	d) Antifoam agent
iii)	In Fermenter the t	op portion left witho	out broth is called as	3
	a) Shaft	b) Head space	c) Baffles	d) Sparger
iv)	techniq	jue is used to isolate	e auxotrophic strain.	
	a) Acid	b) Growth factor	c) Penicillin	d) Citric acid
v)	AISI 316 grade ste	eel contains	% nickel is pres	ent.
	a) 18	b) 10	c) 07	d) 04
vi)	Lyophilization pro	cess is synonymous	s with pro	ocess.
	a) Filtration	b) Freeze drying	c) Sterilization	d) Disinfection
vii)	Starch is a precurs	or used in	production.	
	a) Amylase	b) Penicillin G	c) Vitamin B12	d) Lysine



viii)	Continuous feed of	during fermentation	is used to maintain		
	a) water level		b) temperature		
	c) substrate cond	centration	d) mixture		
ix)	Industrial alcohol	is produced by usin	g as a s	starter culture.	
	a) <i>Penicillium</i>	b) Bottom yeast	c) <i>E.coli</i>	d) Acetobacter	
x)	The process that I	kills all pathogenic r	microorganisms is k	known as	
	a) Lyophilization	b) Growth	c) Pasteurization	d) Disinfection	
xi)	Industrial microbio	ology, mainly depen	ds on the phenome	non of	
	a) Sterilization	b) Classification	c) Fermentation	d) Alteration	
xii)	The capacity of la	boratory fermenter	is litre.		
	a) 1-2	b) 100-1000	c) above 10000	d) 300000-400000	
xiii)	Heat sensitive liqu	uid fermentation me	dia should be sterili	ized by using	
	a) Heat	b) Pasteurization	c) Filtration	d) Centrifugation	
xiv)		aining all the parts a	and condition neces as	ssary for the growth	
	a) Impeller	b) Baffles	c) Auto reactor	d) Bioreactor	
2. Att	tempt <b>any seven</b> of	the following:		14	4
i)	Define fermentatio	n.			
ii)	What are baffles?				
iii)	Define Antifoam ag	gent.			
iv)	Define antibiotic.				
v)	Define agitation.				
vi)	Types of impeller b	olades.			
vii)	Preservation of mi	croorganism.			
viii)	Sketch neat labele	ed diagram of spray	dryer.		
ix)	Define sterilization	ı.			

3. A)	Answer any two of the following:	10
	i) Describe in brief secondary screening with suitable example.	
	ii) Explain in detail sterilization of fermentation media.	

- iii) Explain in detail the process of fermentation.
- B) Write detail account on History of Industrial Microbiology.

#### 4. Answer any two of the following:

i) What are the different types of fermenter used in fermentation industry?

- ii) Describe in detail primary screening techniques and significance in fermentation industry.
- iii) Briefly explain scope of industrial microbiology.

#### 5. Attempt any two of the following:

14

4

14

- i) Explain in detail factors involved in fermenter design.
- ii) Write in detail about the isolation and preservation of industrially important microorganisms.
- iii) Describe in detail fermentation media with special reference to alternative sources of carbon and nitrogen, buffers and precursors.



Seat		
No.	Set	P

### B.Sc. – I (Entrepreneurship) (CBCS) (Semester – II) Examination, 2018 Basic Techniques in Industrial Microbiology INDUSTRIAL MICROBIOLOGY – II

•		day, 20-4-2018 to 1.00 p.m.			Max. Marks: 70	
	N.B. :	1) <b>All</b> questions are 2) Draw a <b>neat</b> labe 3) Figures to the <b>rig</b>	elled diag	ıram <b>whereve</b>	r necessary.	
1. Re	write the follo	owing sentences by c	hoosing c	correct alternati	ves from given below : <b>14</b>	
i)		_ is the example of	mutagen	ic agent.		
	a) Sodium	b) UV light	c)	Visible light	d) Agar	
ii)	Protoplast 1	fusion technique ma	inly used	l in	programme.	
	a) Strain improvement			b) Screening		
	c) DSP		d)	Scale up		
iii)		technique is mai	nly used	in isolation of	Auxotropic mutant.	
	a) Filtration	n b) Penicillin	c)	Streak Plate	d) Amino acid	
iv)	The proces called as	ss adopted to produ	ice an in	oculums meet	ing these criteria is	
	a) Hydrolyt	tic enzyme	b)	Antibiotic		
	c) Scale up	р	d)	d) Inoculums development		
v)		is an industrial imp tively measuring the		•	,	
	a) Assay		b)	Scale up		
	c) Fermen	tation	d)	None of these		
vi)	Any change	e that occurs in the [	DNA of a	gene is referr	ed to as	
	a) Transfor	rmation	b)	Vernalisation		
	c) Mutation	n	d)	Eugenics		
vii)		% cost is requirir	ng for rec	overy and pur	ification of ethanol.	
	a) 30	b) 100	c)	55	d) 70	

2.

viii)	Ca(OH) <sub>2</sub> is mainly used for recovery	of		
	a) Amylase b) Penicillin	c)	Citric acid d) Vitamin B <sub>12</sub>	
ix)	Data reduction is mainly performed	by		
	a) Data logging	b)	Data recovery	
	c) Data analysis	d)	Data management	
x)	can be precipitated out	of b	roth by the addition of methanol.	
	a) Peptone	b)	Dextran	
	c) NaOH	d)	Citric acid	
xi)	process mainly used in the	re	covery and purification of alcohols.	
	a) Distillation	b)	Solvent extraction	
	c) Drying	d)	None of these	
xii)	Mutations inducing agents are called	d as	3	
	a) Toxicants	b)	Antifoam agent	
	c) Supernatant	d)	Mutagens	
xiii)	Auxotrophic mutants cannot grow or	า	media.	
	a) Complete	b)	Synthetic	
	c) Minimal	d)	Semisynthetic	
xiv)	is mainly used in computer	app	olications in fermentation technology	
	for ADC to DAC.			
	a) Interface b) Clock	c)	Meter d) Knob	
2. An	swer any seven of the following:		1	14
i)	Define centrifugation.			
ii)	Define turbidometric assay.			
iii)	Enlist types of mutagenic agent.			
iv)	Applications of drying in DSP.			
v)	Define biological assay.			
vi)	Define Flocculation.			
vii)	Define downstream processing.			
viii)	Define scale up.			
ix)	What is protoplast fusion?			



3.	A)	Answer any two of the following:	10
		i) Describe in brief precipitation in DSP.	
		ii) Discuss in detail genetic engineering in strain improvement programme.	
		iii) Describe in detail inoculums development process.	
	B)	Give a detailed account on Site directed mutagenesis.	4
4.	Ar	nswer <b>any two</b> of the following:	14
	i)	Describe in detail fermentation economics.	
	ii)	Describe in detail metabolic response assay.	
	iii)	Explain in detail computer applications in fermentation technology.	
5.	Ar	nswer <b>any two</b> of the following:	14
	i)	Write in detail solvent extraction for recovery of product.	
	ii)	Discuss in detail enzymatic assay.	
	iii)	Define filtration and explain in detail types filtration.	

Set P



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Seat	Set	D
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В.8	ос.	. – I (Semes	ster – II) (Entrepro INDUSTRIAL Basics of Biom	BIOTECH	HNOLOGÝ	·	2018
•		d Date : Satur 10.30 a.m. to	day, 21-4-2018 1.00 p.m.			Max. Mar	ks : 70
		<b>N. B.</b> :	<ol> <li>All questions ar</li> <li>Draw a neat lab</li> <li>Figure to the rig</li> </ol>	elled diagı	ram <b>whereve</b>	•	
		write the follov ow :	wing sentences by cl	noosing co	orrect alternat	tives from given	14
	1)	Sugars are pl	laced in	_ category	/.		
		a) Proteins		b) Li	pids		
		c) Hormones	3	d) C	arbohydrates		
	2)	Ten or more	number of sugar resi	dues is ca	lled as		
		a) Monosaco	charides	b) D	isaccharides		
		c) Polysacch	narides	d) P	roteins		
	3)		number of naturally	occurring a	amino acids.		
		a) Ten	b) Twenty	c) F	our	d) Hundreds	
	4)	The bond bet	tween two amino acid	ds is called	l as		
		a) Hydrogen	bonds	b) P	eptide bonds		
		c) Ionic bond	sk	d) C	ovalent bonds	6	
	5)	Glycogen is b	oest defined as				
		a) Storage for	orm of lipids	b) S	torage form o	f proteins	
		c) Storage for	orm of glycerol	d) P	olymer of glu	cose	
	6)	Enzymes	<del></del>				
		a) Increase t	the rate of a chemica	al reaction			
		b) Are alway	s stored in active for	m			
		c) Are consu	umed in chemical rea	ections			
		d) All of the a	above				

SLR-SE	3–19	-2-	
7)	of the following is not an	n amino acid.	
	a) Glutamic acid	b) Aspartic acid	
	c) Glutamine	d) Palmitic acid	
8)	is the covalent bond which	ch link two sugar residue in oligosaccharide	).
	a) Peptide bonds	b) Hydrogen bonds	
	c) Glycosidic bonds	d) Ester bonds	
9)	vitamin is involved in	n blood clotting.	
	a) Vitamin B6	b) Vitamin B12	
	c) Vitamin D	d) Vitamin K	
10)	Lactose is a disaccharide of	and Galactose.	
	a) Sucrose	b) Glucose	
	c) Maltose	d) Mannose	
11)	Starch is a		
	a) Homopolysaccharide	b) Heteropolysaccharide	
	c) Exopolysaccharide	d) None	
12)	Secondary structure of protein co	nsist	
	a) $\alpha$ helix	b) β sheets	
	c) Both a) and b)	d) Twist	
13)	The enzyme secreted either in pras	resence or absence of substrate is known	
	a) Constitutive	b) Inducible	
	c) Endoenzyme	d) Exoenzyme	
14)	a structure of prote	ein is native structure.	
	a) Primary structure	b) Secondary structure	
	c) Tertiary structure	d) Quaternary structure	
2. Ans	swer any seven of the following:		14
i)	Define oligosaccharide.		
ii)	Enlist pituitary hormones.		
iii)	Define glycosaminoglycans.		
iv)	Enlist acidic amino acids.		

		-3-	SLR-SB-19
v)	Define Exoenzyme.		
vi)	Define immobilization.		
vii)	Functions of hormone.		
viii)	What is fatty acid?		
3. A)	Answer <b>any two</b> of the following:		10
	<ul><li>i) Describe in brief factors affecting</li><li>ii) Define Vitamin. Discuss in deta</li></ul>	• ,	
	iii) Write a detail note on Cholester		
B)	Give a detailed account on types o	f enzymes.	4
4. Ar	nswer <b>any two</b> of the following:		14
i)	Describe in detail methods of enzy	me immobilization.	
ii)	Discuss in detail structural classifi	ication of proteins.	
iii)	Write in detail physiological role of	hormones.	
5. Ar	nswer <b>any two</b> of the following:		14
i)	Define polysaccharide. Discuss in	detail Homopolysaccharide.	
ii)	Explain in detail classification of a	mino acids.	
iii)	Write in detail types of lipids.		



Seat	
No.	

Set P

### B.Sc. – I (Semester – II) (Entrepreneurship) (CBCS) Examination, 2018 INDUSTRIAL BIOTECHNOLOGY Basics of Metabolism (Paper – II)

Day and Date : Monday, 23-4-2018 Time : 10.30 a.m. to 1.00 p.m.	Total Marks: 70
Instructions: 1) Draw neat labelled dia 2) Figures to the right in 3) All questions are con	dicates <b>full</b> marks.
1. Rewrite the sentence by choosing the c	orrect alternatives from the following: 14
Respiration is regarded as a      a) Catabolic    b) Anabolic	
<ul><li>2) The cell membrane is i</li><li>a) Permeable</li><li>c) Semi-permeable</li></ul>	
<ul> <li>3) is an example of primary a</li> <li>a) Na<sup>+</sup>, K<sup>+</sup>, ATPase</li> <li>c) H<sup>+</sup> – Cl<sup>-</sup> exchange</li> </ul>	ctive transport.
<ul><li>4) can utilize light as energy</li><li>a) Chemoautotroph's</li><li>c) Autotrophs</li></ul>	b) Organotrophs
5) acts as Na <sup>+</sup> channel blo a) Teradotoxin b) Conotoxin	
<ul><li>6) Krebs cycle in the plants occurs in</li><li>a) Cytosole</li><li>c) Mitochondrial Matrix</li></ul>	<ul><li>b) Peroxisomes</li><li>d) Glyoxisomes</li></ul>
<ol> <li>In anerobic respiration, the final election chain is</li> </ol>	tron acceptor in the electron transport
<ul> <li>a) NAD<sup>+</sup></li> <li>b) O<sub>2</sub></li> <li>8) can only use glucose a</li> <li>a) Liver</li> <li>c) Red Blood Cells</li> </ul>	_
9) V-type of pump is distributed at all s	,



	10)	Glycolysis is also a) HMP		pathwa c) Glyoxilate	-	EMP	
	11)	The prosthetic groat	oup of NADH o b) NADH	lehydrogenase is c) FAD	d)	NADPH	
	12)	In Glycolysis, deh a) 3 – PGA		s during the forma c) PEPA		DHAP	
	13)	On decarboxylation a) Acetaldehyde c) Ethyl alcohol	on, pyruvate g	ves rise to b) Lactic acio d) Methyl alc			
	14)	The synthesis of a a) Glycolysis c) Aerobic respira		during respiration b) Oxidative d) Anaerobic	phosph	orylation	
2.	1) 2) 3) 4) 5) 6) 7) 8)	swer <b>any seven</b> of Xenobiotics. Active transport. Photorespiration. Add a note on LCS Enlist inhibitors of Anabolism. Chemotrophs. Passive transport. Define - Oxidation	50. Oxidative pho	sphorylation.			14
3.	·	Answer <b>any two</b> of 1) Write a note or 2) Explain structu 3) Explain cyclic of Add a note on structurus.	n voltage gated are of biologica electron transp	l ion channel. membrane with n ort chain.	eat lab	elled diagram.	10
4.	1) 2)	swer <b>any two</b> of th Write a detail note What are transpor Write a brief note	e on EMP path rters ? And add	l a detailed note o	n its cla	assification.	14
5.	1) 2)	swer <b>any two</b> of th Write a detail note Give a detailed ac Explain HMP path	e on TCA cycle ecount on biotr				14



Seat	Set	D
No.	Set	

### B.Sc. II (Semester – III) (CBCS Pattern) Examination, 2018 **ENTREPRENEURSHIP** (New)

#### P

Paper – V : Prind	ciples of Business	Management & B	Business Organization
Day and Date : Tue Time : 2.30 p.m. to	•		Max. Marks: 70
Instructio	<b>ns</b> : 1) <b>All</b> questions 2) Figures to the	are <b>compulsory</b> . e <b>right</b> indicate <b>full</b>	marks.
1. Select correct	alternative.		14
1) In	Leadership Style	es, Decision Making	Power is centralized.
A) Free Re	ein	B) Supportive	
C) Democ	ratic	D) Autocratic	
2)	is the process of	deciding further cou	irses of action in advance.
A) Organiz	zing B) Staffing	C) Planning	D) Training
3) Establishir	g Standard is the first	t step in	_ process.
A) Staffing	B) Planning	C) Directing	D) Centrality
	is the Art of Know one in best and cheap		to do and then seeing
A) Staffing		B) Planning	
C) Manage	ement	D) Training	
5) Theory Z of	f motivation is develo	ped by	
A) William	Ouchi	B) Herzberg	
C) McGreg	gor	D) Maslow	
6) A projects.	Design of Orgai	nization composed	of a number of small
A) Functio	nal	B) Conglomera	ate
C) Division	nal	D) Matrix	
7) The Motiva	ation Factor consist of	:	
A) Achieve	ement	B) Recognition	1
C) Advertis	sement and Growth	D) All of the at	oove

2.



8)	control is the process of adjusting further Action on the basis of information about past performance.					
		•			1	
	<ul><li>A) Feedback</li><li>C) Concurrent</li></ul>		•	Feed Forward Indirect	ı	
0)	,	on in a textile inc	,		erations like gunny,	
9)	spinning, weaving			•	• •	
	A) Process	B) Product	C)	Territory	D) Customer	
10)	Recruitment and s	selection of emplo	yees	in the task inc	luding in the function	
	A) Controlling	B) Motivating	C)	Directing	D) Staffing	
11)	is co	oncern with increa	asing	the technical	skill knowledge and	
	operative skills in	doing particular j	ob.			
	A) Staffing	B) Tanning	C)	Selection	D) None of these	
12)	type o	of organization ex	ist.			
	A) Formal		B)	Informal		
	C) None of these		D)	Both		
13)	are m	anagement funct	ion.			
	A) Planning		B)	Organizing		
	C) Directing & Co	ntrolling	D)	All of these		
14)	Orient	ed Leader Give In	nport	ance to both pr	oduction and people.	
	A) Task		B)	Team		
	C) Country Club		D)	None of these	9	
Sol	ve <b>any seven</b> .					14
1)	Democratic Leade	ership Styles.				
2)	Importance of Pla	inning.				
3)	Define Control.					
4)	Importance of Lea	ader.				
5)	Role of Manager.					
6)	Explain Non-Fina	ncial Incentives.				
7)	Line Organization	١.				
8)	Importance of Org	ganisation.				
9)	Nature of Manage	ement.				

		-3-	SLR-SB - 22
3.	A) Solve <b>any two</b> .		10
	1) Decision Makin	g Process	
	2) Principle of Tay	lor	
	3) Importance of N	lotivation.	
	B) Importance of Cont	rol.	4
4.	Solve <b>any two</b> .		14
	1) Explain Functions	of Management.	
	2) Explain in brief typ	es of training.	
	3) Explain types of P	an.	
5.	Solve any two.		14
	1) Explain control ted	hniques.	
	2) Explain Planning F	Process.	
	3) Explain Role of Ma	anagers in Organization.	



Seat	
No.	

Set P

#### B.Sc. – II (Semester – III) (CBCS) Examination, 2018 ENTREPRENEURSHIP (Paper – VI) Advanced Accountancy and Auditing (New)

Day and Date: Wednesday, 25-4-2018 Time: 2.30 p.m. to 5.00 p.m.	Total Mark	ks : 70
Instructions: 1) All questions are con 2) Figures to the right in	-	
1. Choice and write a correct answer from	given four alternatives :	14
1) is a shortcut key to sele	ect any activated company.	
a) F1 b) Alt+F1	c) F10 d) F2	
2) VAT stands for		
<ul><li>a) Voice Access Table</li></ul>	b) Value Added Tax	
c) Vision Accurate Table	d) None of these	
3) To change current date from gatewa	y of tally press the key.	
a) F1 b) F2	c) F9 d) F12	
4) A person who owes money to the bu	isiness is called a	
a) Creditor b) Debtor	c) Proprietor d) Owner	
5) Value of machinery comes under the	primary group of	
a) Current Asset	b) Fixed Asset	
c) Investment	d) Capital Account	
6) BRS stands for		
<ul> <li>a) Bombay Requirement Section</li> </ul>	b) Bank Reconciliation Statemen	nt
c) Business Rate System	d) None of these	
7) Real Account.		
,	b) Furniture A/c	
c) Interest Received A/c	d) Commission A/c	
8) is transferred to debit s		
a) Gross loss b) Net profit	c) Gross profit d) Net loss	

3. A) Attempt **any two** of the following:

1) What is Account? Explain the types of account.

- 2) Draw a Format Journal, Ledger, P and L A/c, Trial Balance and Balance Sheet.
- 3) Explain Cash flow and Fund flow statement.
- B) Write down scope of auditing.

4



4.	Attemp	t anv	two	of the	following
----	--------	-------	-----	--------	-----------

14

- 1) Draw and explain company creation and ledger creation manu.
- 2) Explain the meaning, need and importance of vouching.
- 3) What is VAT? Explain VAT master and VAT on MRP.

#### 5. Attempt any two of the following:

14

- 1) What is Tally? Explain the features of Tally.
- 2) Explain the short cut key and function key in Tally.
- 3) State groups for ledgers and create the ledgers
  - a) Ashok starts business with Rs. 10,000/-
  - b) Purchase machinery for Rs. 50,000/- and furniture Rs. 10,000/-
  - c) Paid amount for rent Rs. 1,000/-
  - d) Deposit Rs. 10,000/- in bank.
  - e) Purchase goods for Rs. 20,000/- from Mr. Ram on credit
  - f) Sold goods to Mr. Rakesh for Rs. 10,000/-
  - g) Rs. 5,000/- withdraws from bank for personal use.



	 _	
Seat	Set	P
No.		

# B.Sc. – II (Semester – III) (Entrepreneurship) (New CBCS) Examination, 2018 INDUSTRIAL CHEMISTRY (Paper – V) Analytical and Industrial Aspects of Inorganic Chemistry

	7 many moan anna		ooto or morganic	, c,	
•	nd Date : Thursday, 2 2.30 p.m. to 5.00 p.r			Max. Marks :	70
	2) <b>D</b>	<b>II</b> questions are <b>co</b> <b>raw</b> the diagram <b>i</b> igures to the <b>righ</b> t			
	elect the most correct	t alternative for ea	ach of the following a	and rewrite the	14
		nhthalain indiaata	rio.		14
1)	pH range of phenol a) 8.3 to 10	•	c) 1.3 to 3.0	d) 1.5 to 2.5	
2)	A solution containi one		ivalent of a solute p	er litre is known as	
	a) Mole	b) Neutral	c) Standard	d) Normal	
3)	Catalyst which deci	reases the rate of r	reaction is called	catalyst.	
	a) Auto		b) Positive		
	c) Negative		d) Enzyme		
4)	Contact process wa	as developed by $\_$			
	a) Carl Bosch and	l Haber	b) Phillips c		
	c) Solvay		d) Ostwald's		
5)	In Haber process fo	orward reaction is	favored by		
	a) High pressure		b) Low pressure		
	c) Atmospheric pr	essure	d) Moderate press	sure	
6)	Electrochemical the	eory of corrosion v	vas introduced by	<u>-</u>	
	a) Evan	b) Keir	c) Whitney	d) Faraday	

2.

7)	The passivity which is induced in the metal due to the effect of chemical reagent is			
	a) Corrosion	b) Negative		
	c) Electrochemical	d) Chemical passivity		
8)	Eriochrome Black-T indicator is			
	a) Weak organic acid	b) Oxidizing agent		
	c) Reducing agent	d) Metal ion indicator		
9)	In heterogeneous catalytic reaction _			
	a) Reactants and catalyst are prese	ent in the different phase		
	b) Reactant and catalyst present in	solid state		
	c) Reactant and catalyst present in	•		
	d) Reactant and catalyst present in	gaseous state		
10)	In contact process yield of sulphuric pressure.	acid increases with in		
	a) Decreases b) Increases	c) Moderate d) None of these		
11)	Oxide film theory of passivity was ex	perimentally proved by		
	a) Faraday b) Whitney	c) Evan d) Ostwald		
12)	Particle size of the crystalline precipi			
	•	b) 0.02 – 0.01 micron		
	c) Less than 0.02 micron	d) None of these		
13)	The process in which the foreign io successive layer during the crystal g	ns are trapped and surrounded by the rowth in known as		
	a) Occlusion	b) Co-precipitation		
	c) Inclusion	d) Surface adsorption		
14)	Ionic theory of an acid-base indicator	was proposed by		
	a) J. J. Thomson b) Evan	c) Ostwald d) None of these		
An	swer <b>any seven</b> from the following:		14	
1)	Give any two use of catalyst in indus	strial process.		
2)	Write optimum condition for Haber p	rocess for manufacture of ammonia.		
3)	What is mean by corrosion and class	sify it?		

- 4) Define following:
  - i) Standard solution
  - ii) Normal solution.
- 5) Explain effect of hydrogen overvoltage on corrosion.
- 6) Explain homogeneous catalysis and heterogeneous catalysis.
- 7) Precipitation must be carried out from hot and dilute solution of reactants. Why?
- 8) Explain primary standard substance.
- 9) Write any two conditions for good result of precipitation.
- 3. A) Answer any two from the following:

10

- 1) Discuss the role of phenolphthalein as an indicator on the basis of quinoid theory.
- 2) What is passivity? Discuss the types of passivity.
- 3) Discuss the physico-chemical principles involved in the manufacture of ammonia by Haber process.
- B) Discuss characteristics of catalytic reaction.

4

4. Write note on any two:

14

- 1) Methods of protection of metal from corrosion.
- 2) Contact process for manufacture of sulphuric acid.
- 3) Nucleation.
- 5. Answer any two from the following:

14

- 1) Comment on the merits and demerits of organic precipitants.
- 2) What is catalysis? Discuss the types of catalysis.
- 3) Explain the choice of an indicator for titration between strong acid and weak base with the help of neutralisation curve.

a) hydrophilic

**SLR-SB - 25** 

				JLI1-JD	, — 25
Seat No.				Set	Р
B.S	INI	DUŚTRIAL CHE	(Entrepreneursh MISTRY (Paper Spects of Organ	– VI)	2018
Day a	nd Date : Friday, 2	7-4-2018		Max. Ma	ırks : 70
Time	: 2.30 p.m. to 5.00	p.m.			
	<b>N.B.</b> :	, •	are <b>compulsory</b> . <b>right</b> indicate <b>full</b> n eled diagrams <b>wher</b>		
1.	Rewrite the following	ng sentences by u	sing correct alternat	ive.	14
	•	-	ains c) 65% water		
	,		ent methods are use g c) refining		gar.
i	ii) The rectified spi a) 9	rit contains b) 95.6		d) 100	
i	v) Cotton and jute a) synthetic c) inorganic		fibers. b) semi-synther d) natural	iic	
,		_	e soap after saponifi c) NaCl	cation. d) KOH	
١	vi) The detergents a) non-ionic		ater are generally _ c) cationic		
V	•	·	snature.	,	

b) hydrophobic c) amphipatic

d) none of these

viii)	The efficiency of bleaching depends of	upon	
	a) through impregnation of the fiber		
	b) uniform distribution of the liquor		
	c) control of concentration and temp	erature of bleachig liquor	
	d) all of these		
ix)	is the process of removing		
	, , ,	c) scouring d) bleaching	
x)	The semisolid mass obtained from ca	-	
	<ul><li>a) massecuite</li><li>c) strick pan</li></ul>	<ul><li>b) mother liquor</li><li>d) none of these</li></ul>	
:\	,		
XI)	Antipyretic is a drug used toa) control sleep temperature		
	c) lower body	d) elivate body temperature	
xii)	An ideal drug must not induce		
λ,	a) resistance	b) hunger	
	c) curative action	d) all of these	
xiii)	Fumigants are insecticide which		
	a) penetrate through respiratory sys	tem	
	b) penetrate by mear contact		
	c) enter through vascular system		
	d) enter through alimentary canal		
XIV)	The by product of sugar industry etha		
	a) juice b) bagasse	c) molasses d) sugar	
	swer <b>any seven</b> of the following:		14
	What is meant by saponification read	ction?	
ii)	Define the terms :		
	<ul><li>i) Rectified spirit</li><li>ii) Denatural spirit.</li></ul>		
iii)	What do you mean by Dyeing?		
	Give the classification of fibers.		
,	What do you mean by antimalarial dr	rug with suitable example ?	
,	,	•	



	vi)	What are agrochemicals? Give any t	two examples.	
١	/ii)	Draw the diagram of clarifier in manu	facture of sugar.	
٧	iii)	Give the synthesis of deriphat.		
	ix)	What are the qualities of ideal drug?		
3.	A)	Answer <b>any two</b> of the following: i) Write a note on extraction of juice ii) Gives general idea of process of o iii) Write a note on types of soap.		10
	B)	Explain the by-products of sugar indu	ustry.	4
4.	An	swer any two of the following:		14
	ii)	Give the synthesis and uses of a) Monocrotophos What do you understand the terms a) Rectified spirit c) absolute alcohol Explain manufacture of soap by hot p	b) Methoxychlor. b) denatured spirit d) power alcohol process.	
	i) ii)	Explain bleaching action in textile ind Give synthesis and uses of a) Paludrin b) Tolbutamic Explain manufacture of ethanol from	de.	14

**SLR-SB - 26** 

Seat	Sat	В
No.	Set	

### B.Sc. II (Semester – III) (Entrepreneurship) (New – CBCS) Examination, 2018 MICROBIAL BIOTECHNOLOGY (Paper – V) Genetics

MICROBIAL BIO	Genetics	
Day and Date : Saturday, 28-4-2018 Time : 2.30 p.m. to 5.00 p.m.	Max. I	Marks : 70
<b>N.B.</b> : 1) <b>All</b> questions a 2) Figures to the <b>I</b>	re <b>compulsory</b> . <b>right</b> side indicate <b>full</b> marks.	
1. Rewrite the following sentence by	y choosing correct alternatives.	14
1) Cross made between offspring	g and its parents is called as	
a) monohybrid cross	b) back cross	
c) dihybrid cross	d) test cross	
2) Exchange of segment between	n non-homologous chromosomes is calle	ed as
a) Translocation	b) Transformation	
c) Transduction	d) None of the above	
3) is condition if the condition of its cells,	child is born with an extra chromosome ir	ı each
a) Non-disjunction	b) Recombination	
c) Segregation	d) None of the above	
4) The word chromosome was gi	iven by	
a) Bateson (1906)	b) Waldeyer (1888)	
c) Mendel (1909)	d) Watson (1878)	
5) 5 – Bromouracil is a mutagen.	. It act as	
a) Deaminating agent	b) Alkylating agent	
c) Base analog	d) None of the above	
6)is the phenotype of	an individual represents.	
a) Gene arrangement		
b) Genetic linkage		
c) Physical appearance of the	eperson	
d) All the above		



7)		is mos	t likely to disrupt th	ne n	ormal linking patte	ern of genes.
	a)	Crossing over				
	b)	Unlinking				
	c)	Allergic respon	nse pattern in the c	ell	membrane	
	d)	All of these				
8)		is the	most potent mutaç	gen.		
	a)	UV – A	b) X - rays	c)	UV – B	d) UV-C
9)		is the	example of ABO b	ooloo	d group system.	
	a)	Complete dom	ninance	b)	Incomplete domin	ance
	c)	Blending		d)	Co-dominance	
10)	In I	heredity, the ge	enes are obtained	fron	n	
	a)	Father	b) Mother	c)	Both	d) None of the above
11)				ete	rozygous offsprin	g is crossed with
		mozygous rece	•			
	a)	Reciprocal cro	OSS	b)	Dihybrid cross	
	c)	Back cross		d)	Test cross	
12)	Me	endel did not pro	opose			
	a)	Segregation		b)	Dominance	
	c)	Independent a	ssortment	d)	Incomplete domin	ance
13)	Lin	ıkage genes ar	e located on			
	a) Same chromosome					
	b)	Different chror	mosome of the sar	ne s	size and shape	
	c)	Inherited gene	s			
	d)	Both a and b				
14)		acts	as an intercalating	gag	ent.	
	a)	Acridine orang	e	b)	Ethidium Bromide	
	c)	Proflavin		d)	All of these	



2.	Attempt any seven of the following:	14
	1) What is Gene interaction?	
	2) Write a note on Law of Segregation.	
	3) Write a short note on Transformation.	
	4) Define Mode.	
	5) Explain Linkage.	
	6) Define mutation.	
	7) Define Dihybrid with its ratio.	
	8) Epistasis.	
	9) Chi-Square test.	
3.	A) Attempt any two of the following:	10
	1) Write a detail Incomplete dominance.	
	2) Explain in detail Mutagenic agents.	
	3) Explain Law of Dominance with example.	
	B) Describe process of conjugation with suitable example.	4
4.	Attempt any two of the following:	14
	1) Write a note on linkage and explain its types.	
	2) Explain Supplementary Epistasis.	
	3) What is crossing over? Explain in different theories of crossing over.	
5.	Attempt any two of the following.	14
	1) Write a detailed on Mendel's experiment.	
	2) Define Chromosome and explain its types based on centromere.	
	3) What is Chromosomal aberration? Explain its types.	

SL	R	-SE	3 —	27



Seat	
No.	

Set P

## B.Sc. – II (Semester – III) (Entrepreneurship) (New – CBCS) Examination, 2018 MICROBIAL BIOTECHNOLOGY Fermentation Technology (Paper No. – VI)

	Fern	nentation Techno	ology (Paper No.	– VI)	
•	nd Date : Wedneso 2.30 p.m. to 5.00	-		Max. Marks	: 70
	2) D	raw a <b>neat</b> labelle	ompulsory and ca ed diagram wherev t indicates full man	ver necessary.	
	ewrite the following low.	g sentences by ch	oosing correct alte	rnatives from given	14
i)	a) Refampicin c) Penicillin	_ is the example	of beta lactum antil b) Chlorampheniond) Both b) and c)	col	
		is commercially us	sed as bioinsecticions) b) B. thuringiensi d) A. niger		
iii)	Vitamin B12 is als a) Cobalmin		c) Peptone	d) Iron	
iv)		-	v material during Soc) Glucose	=	
v)			uring c c) Anaerobic		
vi)		_	erally for the product c) Citric acid		
vii)		type of b) Fat insoluble		d) Water insoluble	
viii)			ends on the pheno c) Fermentation	menon d) Pasteurization	
ix)			luring beer product c) Sorghum		
x)	Fortied wine cons	sists	. –		

iii) Write in detail Amylase production.

### **SLR-SB -28**

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## B.Sc. – II (Semester – III) (Entrepreneurship) (Old) (CGPA) Examination, 2018 PRINCIPLES OF BUSINESS MAGT. AND BUSINESS ORGANIZATION (Paper – III)

	TION (Paper – III)
Day and Date : Tuesday, 24-4-2018 Time : 2.30 p.m. to 5.00 p.m.	Max. Marks : 70
<b>N. B.</b> : <b>All</b> questions a <b>Marks</b> indicate	re <b>compulsory</b> . to the <b>right</b> side.
1. Choose the correct answers from th	ne given alternatives : 14
<ol> <li>Management is a pr</li> <li>a) Psychological</li> <li>c) Social and integrated</li> </ol>	b) Integrated
<ul><li>2) The second function of manager</li><li>a) Staffing</li><li>c) Organising</li></ul>	ment is b) Planning d) Co-ordinating
<ul><li>3) Leadership is the ability of</li><li>objectives.</li><li>a) Motivating</li><li>c) Influencing</li></ul>	people to strive willingingly for mutual b) Directing d) Inducing
4) Motivation is a concert a) Social c) Integrated	ept. b) Dynamic d) Psychological
<ul><li>5) is a pioneer of need</li><li>a) MC Gregor</li><li>c) Herzberg</li></ul>	hierarchy theory. b) MC Clell d) A. H. Maslow
<ul><li>6) Planning is a process which beg</li><li>a) Objectives</li><li>c) Strategies</li></ul>	gins with b) Goals d) Policies
<ul><li>7) In staffing function n</li><li>a) Only top</li><li>c) Only personnel</li></ul>	nanagers are involved. b) Only middle d) All of the above

8)	Organising process does not involve		
	a) Departmentation	b) Delegation of authority	
	c) Appraisal of subordinate	d) Fixing responsibility	
9)	control is a tool of man	agement used to plan, carry out and	
	control the operation of the busines	SS.	
	a) Cost	b) Inventory	
	c) Production	d) Budgetary	
10)	refers to the structure of	well defined jobs, each having a definite	
	authority and responsibility.		
	a) Formal organisation	b) Informal organisation	
	c) Functional organisation	d) Product organisation	
11)	is one of the feature of	good plan.	
	a) Consistency	b) Highly ambitious targets	
	c) Rigid targets	d) None	
12)	Every decision is the outcome of a	process which is influenced	
	by multiple process.		
	a) Dynamic	b) Integrated	
	c) Continuous	d) Complex	
13)	The theory X and Theory Y of moti	vation are devised by	
	a) Vroom	b) MC Gregor	
	c) Herzberg	d) Maslow	
14)	is the art of getting things done through and with people in		
	formally organised groups.		
	a) Organising	b) Administration	
	c) Planning	d) Management	

2) Enumerate the financial and non-financial incentives for employee motivation.

1) What are the principles of organisation?

3) Discuss the various leadership styles.

Seat	Set	P
No.		•

### B.Sc. - II (Semester - III) (Entrepreneurship) Examination, 2018

(Old CGP	A Pattern)  AND AUDITING (Paper – IV)
Day and Date: Wednesday, 25-4-2018	Max. Marks : 70
Time: 2.30 p.m. to 5.00 p.m.	
<b>N.B.</b> : 1) <b>All</b> questions are <b>c</b> 2) Figures to the <b>righ</b>	
<ol> <li>Rewrite the statements choosing the control</li> <li>Goods sent on approval basis have an example of</li> </ol>	prrect alternative. been recorded as 'Credit sales'. This is
<ul><li>a) Error of omission</li><li>c) Errors of duplication</li></ul>	<ul><li>b) Error of commission</li><li>d) Error of principle</li></ul>
<ol> <li>Funds Flow Statement is also know</li> <li>a) Statement of Funds Flow</li> </ol>	n as
b) Statement of Sources and Applic c) Statement of Sources and Uses	
<ul><li>d) All of the above</li><li>3) Balance sheet audit includes verification</li><li>a) Assets</li></ul>	ation of
b) Liabilities c) Income and expense accounts w	here appropriate
d) All of the above	
<ul><li>4) Excess of credit over debit in profit a</li><li>a) Net profit</li></ul>	and loss A/c indicates b) Gross profit
c) Gross loss	d) Net loss
5) What is TAN?	,
a) Tax Absorb Number	b) Tax Assign Number
<ul><li>c) Tax Account Number</li><li>6) Voucher relates to</li></ul>	d) Tax Assessment Number
a) Cash receipt	b) Cash payment
c) Credit transaction	d) All the above
<ol><li>Auditing standards differ from audit</li></ol>	procedures in that procedures relate to
a) Audit assumptions	b) Acts to be performed
c) Quality criterion	d) Methods of work
<ul><li>8) Discount Column is available in</li><li>a) Sales invoice</li></ul>	b) Purchase invoice
c) Both a and b	d) None of these
<ol><li>9) Internal Auditor is appointed by</li></ol>	, 
a) The Management	b) The Shareholders
c) The Government	d) The Statutory Body



	11) 12) 13)	The most comprehensive ty examines suitability and e	b) d) d) d) d) ancial year b) ype of audit	Cash book Journal s, Etc. can be sh Statistics Company info ends on 30 <sup>th</sup> June 31 <sup>st</sup> March is the	nown from ormation every year. system audit, which	
	14)	<ul><li>a) Quantity</li><li>c) Preliminary</li><li>Carriage inward is debited</li><li>a) Trading</li><li>c) Capital</li></ul>	υ,	Sequential _ Account. Profit and lose Drawing	S	
2.	1) 2) 3) 4) 5) 6) 7) 8)	Ive any seven of the following What is working capital? Features of balance sheet. Scope of auditing. Introduction to VAT. Difference between cash be Formula-gross profit, gross Types of voucher. What is meant by insurance Why is Profit and Loss Acc	ook and pas s claim, polic e claim ?	cy amount.		14
3.	A)	Attempt any two of the following parti	•	oro D.S.I. A/o o	on 01 0 0010	10
		<ol> <li>From the following particulars</li> </ol>	culars prepa <b>Rs.</b>	ale гаця/Са	15 011 31-3-2012.	
		Gross profit	_			
		Travelling Expenses	1,700			
		Bad debts	1,000			
		Salary	3,000			
		Rent paid	2,000			
		Carriage Outward	500			
		Advertisement	2,700			
		Commission Received	1,800			
		Insurance paid	2,100			
		Printing and stationery	1,100			



2) M/s Mayur Co. Pvt. Ltd., Balance Sheet.

Labilities	2001 (Rs.)	2002 (Rs.)	Assets	2001 (Rs.)	2002 (Rs.)
Share Capital	2,00,000	3,00,000	Machinery	2,05,000	3,25,000
Reserve	60,000	95,000	Stock	90,000	1,50,000
Bank loan	1,00,000	80,000	Sundry Debtors	1,20,000	1,50,000
Profit and loss	45,000	1,10,000	Bills Receivable	45,000	30,000
Sundry creditors	1,00,000	1,25,000	Preliminary Exp.	55,000	45,000
Bills payable	35,000	30,000	Cash and Bank	50,000	1,10,000
Depreciation	40,000	50,000	Goodwill	40,000	20,000
Proposed Divide	end 30,000	20,000	Discount on Shares	25,000	15,000
Provision for tax	20,000	35,000			
	6.30.000	8.45.000		6.30.000	8.45.000

Prepare a statement showing change in working capital.

- 3) Define Final Account. Describe types of Final Account.
- B) Describe Auditor of limited company.

4 14

#### 4. Attempt any two of the following.

1) A fire broke out in the premises of Star Company on 1<sup>st</sup> July 1995 and stock of the value of Rs. 1,65,000 was salvaged and the books and record were saved. The following information was obtained.

Particulars	Rs.
Stock 31st March 1994	4,80,000
Stock 31 <sup>st</sup> March 1995	4,80,000
Sales from 1 <sup>st</sup> April to 30 <sup>th</sup> June 1995	5,70,000
Purchase from 1 <sup>st</sup> April to 30 <sup>th</sup> June 1995	3,50,000
Sales for the year ended 31 <sup>st</sup> March 1995	18,00,000
Purchase for the year ended 31st March 1995	11,00,000

Calculate the amount of claim to be submitted to the insurance company in respect of loss of stock if policy is taken for Rs. 2,00,000.

2) From the following Ledger Balance, prepare a Trail Balance as on 31-12-2010

<b>Particulars</b>	Rs.	Particulars	Rs.
Purchases	1,49,000	Rent	1,800
Salaries	4,000	Discount	400
Creditors	10,000	Interest	3,000
Debtors	24,000	Bad debts Reserve	2,000
Capital	1,00,000	Stationery	1,400
Drawings	16,000	Postage	460
Sales	2,17,000	Furniture	2,000

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Return inward	1,600	Wages	7,000
Return outward	6,000	Machinery	30,000
Bad debts	1,200	Carriage	1,240
Bills Receivable	1,700	Fuel	2,000
Opening Stock	35,000	Factory Insurance	400
Building	50,000	Reserve fund	6,000

3) What are the classifications of Accountings and what are the Golden rules of Accounting?

### 5. Attempt any two of the following:

1) Pass-book of Mr. Irfan showed the balance of Rs. 2,333 as on 31<sup>st</sup> April, 2008 on the same date cash-book showed the balance of Rs. 3,433 the following points of difference was noted. Prepare a bank Reconciliation on that date.

Sr. No.	Transaction
1	Bank has debited pass-book for insurance premium paid Rs. 1,100, but it was not recorded in a cash-book.
2	Cheque issued but not presented for payment Rs. 800.
3	Bank has credited Rs. 100 for interest, entry of the same has not been made in cash-book.
4	Cheque deposited into bank but not collected Rs. 900.

2) From the following details, prepare Balance Sheet as on 31-3-2014

Particulars	Rs.
Capital	80,000
Building	25,000
Goodwill	6,000
Bills payable	16,000
Creditors	50,000
Machinery	40,000
Cash in hand	10,000
Furniture	20,000
Debtors	45,000

3) What do you mean by Auditing? Describe the Internal and External of an Audit.

14



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### B.Sc. – II (Semester – III) (Entrepreneurship) (CGPA – Pattern) (Old) Examination, 2018 **INDUSTRIAL CHEMISTRY**

Pap	Paper – III (Analytical and Industrial Aspects of Inorganic Chemistry)					
-	d Date : Thursday, 2.30 p.m. to 5.00 p			Total Marks :	70	
	<b>N.B.</b> : i) <b>All</b> (	questions are <b>c</b>	compulsory.			
	•	w <b>neat</b> labeled essary.	diagrams and w	rite equations <b>wherever</b>		
	iii) Figu	ires to the <b>righ</b>	<b>t</b> indicate <b>full</b> ma	arks.		
	lect the most correct	ct alternative fo	r <b>each</b> of the foll	owing and rewrite the	14	
i)	Ionic theory of acida) Pauling		r was proposed c) Faraday			
ii)	Particle size of a) Crystalline c) Gel	prec	ipitate is smalles b) Amorphous d) Solid	rt.		
iii)	The substance who catalyst.	ich increases t	he rate of reaction	on is called		
	a) retarder	b) positive	c) negative	d) promoter		
iv)	In manufacture of °C.	sulphuric acid	by contact proce	ess temperature range is		
	a) 400-450	b) 500-600	c) 200-250	d) None of these		
v)	Passivity is the					
	a) Surface					
vi)	Phenolphthalein h					
	•	•	c) 4-6	,		
vii)	Nucleation isa) Final					

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viii)	catalyst used in	ne hydrogenatio	n of oil.
	a) Sodium	b) Iron	
	c) Platinum	d) Nickel	
ix)	Previously Sulphuric acid was m	anufactured by $\_$	process.
	a) Contact	b) Haber's	
	c) Solvay	d) Lead chemb	er
x)	is the process of p	rotection of meta	als from corrosion.
	a) Heating	b) Hammering	
	c) Galvanizing	d) Forming	
xi)	Eriochrome Black-T is	indicator.	
	a) acid-base indicator	b) metallochroi	mic
	c) acidic	d) basic	
xii)	Increase in temperature decreas	es the extent of	
	a) co-precipitation	b) nucleation	
	c) post-precipitation	d) all of these	
xiii)	increases the effic	iency of catalyst.	
	a) Retarder	b) Promoter	
	c) Initiator	d) Temperature	9
xiv)	The chemicals which induce the	passivity in meta	ls are called
	a) Accelerator	b) Preventers	
	c) Passivators	d) All of these	
2. Sol	ve any seven of the following:		14
i)	Define primary standard with exa	mple.	
ii)	What is meant by equivalence p	oint and end poin	t ?
iii)	What is meant by post-precipitat	on ?	
iv)	Define organic precipitant.		
v)	Define acid-base catalysis with s	uitable example.	
vi)	Give the reactions involved in r process.	nanufacture of s	ulphuric acid by contact
vii)	State Le-Chatelier's Principle.		
viii)	Give the applications of passivity		
ix)	What is meant by catalytic poiso	າ ?	

3. A) Solve any two of the following:

10

- i) Discuss the colour change interval of an indicator.
- ii) Draw the labeled diagram for manufacture  $\rm H_2SO_4$  by contact process.

-3-

- iii) Write a note on electrochemical theory of corrosion.
- B) How do you classify the catalytic reactions?

4

4. Solve any two of the following:

14

- i) What are the types of acid-base titrations? Explain the choice of indicator with the help of nutralisation curve for strong acid against weak base.
- ii) What are the conditions for good precipitation?
- iii) Discuss in detail modern theory of catalysis.
- 5. Solve any two of the following:

14

- i) Discuss the effects of moisture and oxygen on the process of corrosion.
- ii) Discuss in detail, manufacture of ammonia by Haber's process.
- iii) Write the characteristics of catalysts.

**SLR-SB - 31** 



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# B.Sc. – II (Semester – III) (Entrepreneurship) (Old-CGPA) Examination, 2018 INDUSTRIAL CHEMISTRY (Paper – IV) Analytical and Industrial Aspects of Organic Chemistry

	Analytical and Industrial	Aspects of Organic Chemistry
-	d Date : Friday, 27-4-2018 2.30 p.m. to 5.00 p.m.	Max. Marks : 70
	, -	re <b>compulsory</b> . r <b>ight</b> indicate <b>full</b> marks. Iled diagrams and give equations <b>wherever</b>
1. Se	lect most correct alternative amo	ng the following and rewrite the sentences: 14
1)	The soap is mole a) amphipatic c) basic hydrophobic	b) hydrophilic
2)	Defication is a process used in _ a) concentration c) extraction	of cane juice. b) purification d) all the above
3)	Among the following, which is not a) Nylon c) Wool	ot a natural fiber ? b) Jute d) Silk
4)	<ul><li>is the CNS drug.</li><li>a) Phenobarbitone</li><li>c) Ibuprofen</li></ul>	b) Ethambutol d) Paludrin
5)	<ul><li>MIC is required for the synthesis</li><li>a) IAA</li><li>c) Monocrotophos</li></ul>	b) Carbaryl d) Endosulphan
6)	a) Antioxidant c) Fatty acid	g is not additive used in soap manufacture. b) Fixative d) Builder

### **SLR-SB-31**

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7)	Bagasse is used for	r	_
	a) seeding		
	b) extraction of juic	ce	
	c) manufacture of	celotex	
	d) all the above		
8)	The process of remas	noval of wax an	d tallow during sizing process is called
	a) Scouring		b) Singeing
	c) Desizing		d) None of these
9)	is th	ne antitubercula	ır drug.
,	a) isoniazid		b) paludrin
	c) phenobarbitone		d) chloromycetin
10)	Carbaryl is also kno	own as	
/	a) Rhizopan		b) Ethrel
	c) Azodrin		d) Sevin
11)	Antioxidant added to a) To increase the b) To increase detoc) To increase the d) None of these	durability of so ergent action o	ap f soap
12)	The compound imb  a) Crystallize suga  b) Extract juice fro  c) Concentrate sug  d) Clarification of juice	ar from massec m sugar cane gar cane juice	e is used to uite
13)	imp	oart flexibility ar	nd smoothness to the warp threads.
	a) Brighteners		b) Lubricants
	c) Starch		d) Adhesive
14)	A drug should be a) Selective b) Sensitive c) Hypersensitive	a	nd effective.
	d) None of these		

2.	Answer any seven of the following:	14
	i) Explain : i) Builders, ii) Optical brighteners.	
	ii) Explain extraction of juice.	
	iii) Explain in brief sizing ingredients.	
	iv) Define drug with example.	
	v) Give the synthesis of methoxychlor.	
	vi) Define the soap. How it is prepared?	
	vii) Write the steps used in sugar industry.	
	viii) What are the types of fibers?	
	ix) Write the uses of ethephon.	
3.	A) Write short notes on <b>any two</b> :	10
	i) Clarification of juice.	
	ii) Properties of starch.	
	iii) Synthesis and uses of carbaryl.	
	B) Explain the By-products of sugar industry.	4
4.	Answer any two of the following:	14
	i) Explain manufacture of soap by hot process.	
	ii) Explain the process of sizing used in textile industry.	
	iii) Give the synthesis of :	
	i) Monocrotophos	
	ii) Indole-3-acetic acid.	
5.	Answer any two of the following:	14
	i) Explain the cleaning action of soap.	
	ii) Explain manufacture of ethanol from molasses.	
	iii) Give the synthesis and uses of paludrin.	

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**SLR-SB - 32** 

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## B.Sc. II (Semester – III) (Entrepreneurship) (Old) (CGPA) Examination, 2018 MICROBIAL BIOTECHNOLOGY Genetics (Paper – III)

MICROBIAL BIO Genetics (P	
Day and Date : Saturday, 28-4-2018 Time : 2.30 p.m. to 5.00 p.m.	Max. Marks : 70
2) Draw a <b>neat</b> labe	compulsory and carry equal marks. lled diagram wherever necessary. nt indicate full marks.
Rewrite the following sentences by choose below.	sing correct alternatives from given 14
i)is formed when an octame	of 4 histones complexed with DNA.
a) Centromere	b) Endosome
c) Nucleosome	d) None of the above
ii)is Somatic Mutation.	
a) Can be passed to the offspring	b) Cannot be passed to the offspring
c) Cannot be cured	d) None of the above
iii) mutations occur by environm replications.	ental damage or mistakes during DNA
a) Acquired	b) Both a) and b)
c) Inherited	d) None of them
iv) A chromosome is without Ce	ntromere.
a) Metacentric	b) Acrocentric
c) Submetacentric	d) Acentric
v) lonizing radiations cause mutation by	
a) Forming thymine diamers	b) Breaking phosphodiester linkage
c) Intercalating between the bases	d) Both b) and c)



vi)	A complete set of chromosome is known	wn as
	a) Genome b) Polyploidy	c) Karyotyping d) None of these
vii)	is the role of Centromere.	
	a) Helpful in replication of DNA	
	b) Mediate poleward movement of Chi	romosome
	c) Allow chromosome segregation	
	d) All of these	
viii)	is the cross when a he homozygous recessive parent.	terozygous offspring is crossed with
	a) Reciprocal cross	b) Test cross
	c) Back cross	d) Dihybrid cross
ix)	Pea plants can be	,
ix,	a) only cross-fertilize	b) self-fertilize
	c) reproduce with pollination	d) None of these
x)	Linkage genes are located on	,
λ,	a) Different chromosome of the same	size and shape
	b) Same chromosome	
	c) Inherited genes	
	d) Both a) and b)	
xi)	In dominant Epistasis ratio 9:3:3:1	is modified to
	a) 9:7 b) 12:3:1	c) 12:4 d) 13:3
xii)	Emasculation of flower body is achieve	ed by
·	a) Removal of stigma	b) Removal anther
	c) Removal of carpel	d) Removal of stamen
xiii)	is the cause of lack of indeper in fruit fly Drosophila.	ndent assortment of two genes A and B
	a) Repulsion	b) Recombination
	c) Linkage	d) Both a) and b)
viv.\	,	,
XIV)	Alleles that produce independent effect a) Co-dominant	b) Epistasis
	c) Complementary alleles	d) Supplementary alleles

4. Answer any two of the following.

14

- i) Write a detail note on Recessive epitasis with example.
- ii) Write a note on Physical, Chemical and Biological mutagens.
- iii) Explain crossing over and write a note on Factors affecting crossing over.
- 5. Answer any two of the following.

14

- i) Write a detail Karyotyping.
- ii) Explain a detail Monohybrid and Dihybrid cross with example and also explain its phenotypic and genotypic ratios.
- iii) Write in detail complementary gene interaction with example.



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### B.Sc. – II (Semester – III) (Entrepreneurship) (Old CGPA) Examination, 2018

	Fei		BIOTECHNOL echnology (Pa <sub>l</sub>		
-	d Date : Wednes 2.30 p.m. to 5.00	•		Max. Marks	: 70
	2)	Draw a <b>neat</b> la	-	and carry <b>equal</b> marks. <b>wherever</b> necessary. II marks.	
1. Rev	write the following s	sentences by ch	oosing correct alte	rnatives from given below :	14
i)		_ is a beta lac	tum antibiotic.		
	A) Penicillin		B) Streptomy		
	C) Tetracycline		D) Quinolone		
ii)	_			rried out by using	
	<ul><li>A) Top yeast</li><li>C) Middle yeast</li></ul>		B) Bottom year D) All of thes		
:::\			•	<del>,</del>	
III)	The crushed gra  A) Malt		n as C) Sonti	D) Wort	
iv/)	Maturation of the	•	•	,	
10)	A) 14				
v)	,	•	•	by	
• ,	A) Rhizopus	add,			
	C) Apergillus nig		•		
vi)	The recovery of	ethanol is car	ried out by using		
	A) Centrifugatio	n	B) Distillation	1	
	C) Filtration		D) Solvent e	xtraction	
vii)	Commercial pro	duction of citri	c acid is carried b	У	
	A) Rhizopus		B) Candida a		
	C) Apergillus ni	ger	D) Fusarium		
viii)		_ is a antibioti	c which inhibit ba	cterial protein synthesis.	
	A) Penicillin		B) Streptomy	/cin	
	C) Sulphonamic	le	D) Quinolone	e	



i	x)	is a biopesticide used to control pest to enhance				
	economical value.					
		A) Rhizobium		B) Azolla		
		C) Azotobacter		D) Bacillus thurie	engenesis	
2	x)		is a fuel extracte	d from plants and c	crop which is renewable	
		energy source.	D/ D: I: I	0/ 0// 1	D) 14 II	
		•	•	C) Citric acid		
X	xi) is a indicator organism of fecal contamination of wa		ontamination of water.			
		A) S.typhi		B) Shigella		
		C) Pseudomonas	S	D) E.coli		
X	ii)		_ is a symbiotic r	nitrogen fixing orga	anism.	
		A) Rhizobium		B) Azolla	,	
		C) Azotobacter		D) Bacillus thurid		
хi	ii)	Secondary treatmethod.	nent of industria	I waste carried ou	it by	
		A) Physical	B) Biological	C) Chemical	D) Mechanical	
xi	v)			th the help of met	hanogenic bacteria by	
		anaerobic digesti				
		A) Ethanol	B) Methane	C) Biodiesel	D) Butanol	
2. <i>A</i>	۱ns	swer <b>any seven</b> o	f the following:			14
	i)	Define antibiotic.				
	ii)	Define SCP and	enlist its applicat	tion.		
i	ii)	Enlist types of wi	ne.			
i	v)	Trickling filter.				
,	v)	Types of Amylas	es.			
٧	/i)	Ales beer.				
V	ii)	Define biofuel.				
vi	ii)	Define Must.				
i	x)	Explain role of Vi	tamin B 12 in hu	ıman health.		



3.	A)	Answer	any	two	of the	following	
----	----	--------	-----	-----	--------	-----------	--

10

- i) Describe in brief Spirulina used as SCP.
- ii) Discuss in detail biogas production.
- iii) Describe in detail Red wine production.
- B) Give a detailed account on distillation.

4

#### 4. Answer any two of the following:

14

- i) Describe in detail production of beer.
- ii) Define biopesticide. Explain in detail biopesticide production.
- iii) Define beta lactum antibiotic. Discuss in detail submerged production of Penicillin.

### 5. Answer any two of the following:

14

- i) Define biofertilizer. Give a detailed account on symbiotic nitrogen fixation.
- ii) Discuss in detail secondary treatments of industrial wastes.
- iii) Describe in detail L-lysine production by dual fermentation.

Set P

**SLR-SB - 34** 



Seat	
No.	

Set P

### B.Sc. – II (Entrepreneurship) (Semester – IV) (New – CBCS) Examination, 2018 (Paper – VII)

	(Paper CORPORATE ACCOUNTING		•	
		CX I		
	d Date : Thursday, 3-5-2018 10.30 a.m. to 1.00 p.m.		Max. Marks : 70	)
1. Ch	oose the correct answer from given alter	nati	ive: 14	ŀ
1)	Compulsory cancellation of shares by the allotment or call money is called			
	a) Surrender of shares	b)	) Buy back of shares	
	c) Forfeiture of shares	d)	) All of these	
2)	The profit on reissue of forfeited shares	is tr	ransferred to	
	a) General reserve	b)	Capital redemption reserve	
	c) Capital reserve	d)	) Investment allowance reserve	
3)	The allotment of shares in case of overs	subs	scription is called	
	a) Pro-rata allotment	b)	) Private Placement	
	c) Offer for sale	,	None of these	
4)	Debenture holders will get	_		
	a) Dividend b) Interest	c)	) Profit d) All of these	
5)	A charge created not on specific assets	s bu	ut generally on all assets is known as	
2)	a) Fixed charge b) Floating charge	-		
6)	The Balance Sheet of companies are pr			
			Part I of Schedule VI	
_,	c) Part II of Schedule V			
7)	Advance tax paid is shown in the Balance			
	a) Current Liabilities	,	Loans and Advances	
_,	c) Fixed Assets	,	None of these	
8)	is a set of values, beliefs, of the members of the organization.	goa	als, norms and ways of solving problems	
	a) Corporate culture	b)	) Organizational culture	
	c) Both of these	d)	None of these	
9)	A is a written document, in what is acceptable or unacceptable behind employees represent their organizations	avid	or at workplace and beyond, when the	
	a) Code of conduct	b)	) Business ethics	
	c) Corporate governance	d)	None of these	

10) A set of characteristics that sets one group of people apart from another is called as b) Values c) Culture d) None of these a) Ethics represent an individual's highest priorities and deeply held driving forces. 11) b) Principles c) Culture d) Ethics a) Values 12) The word 'moral' is derived from the Latin word a) Moralis b) Morilitic c) Monatic d) None of these deals with the right actions of individuals. 13) \_\_\_\_ b) Rules d) All of these a) Sincerity c) Ethics 14) The is the primary direct stakeholder influencing corporate governance. a) Board of directors b) Creditors c) Investors d) None of the above 14 2. Solve any seven from the following: 1) What is amalgamation? 2) Define Liquidator. 3) Define types of ethics. 4) What is Business Ethics? 5) What is Holding Company? 6) What is Global Corporation? 7) Define Corporate Governance. 8) What is statement of affairs? 9) Meaning of share. 3. A) Solve any two from the following: 10 1) What is liquidation? Explain order of payment. 2) What is code of conduct ? Explain model of code of conduct for Board of director. 3) The following is the Balance Sheet of Vikas Ltd. as on 31-12-2017 Liabilities Rs. **Assets** Rs. Equity share capital Goodwill 1,20,000 30,000 shares of Rs. 10 each 3,00,000 Leasehold property 3,50,000 10% preference shares **Fixtures** 60.000 of Rs. 10 each 1,00,000 Investments 50,000 General Reserve 80,000 Current Assets 75,000 Profit & Loss A/c 70,000 Loans & Advances 15,000 Unsecured creditors 1,00,000 Miscellaneous Expenses 10,000 **Current liabilities** 30,000 6,80,000 6,80,000 Additional information: Following assets were revalued, Leasehold property Rs. 4,00,000

**Fixtures** Rs. 50,000 Goodwill Rs. 2,40,000 Ascertain intrinsic value of each equity share.

B) Explain types of preference shares.



#### 4. Solve **any two** from the following:

14

- 1) Explain advantages of business ethics.
- 2) Explain in detail corporate social responsibility.
- 3) Sunidhi Industries Ltd. Issued for subscription 2,000 equity shares of Rs. 100 each at premium of Rs. 20 per share payable as under:

On application Rs. 20 per share

On allotment Rs. 50 per share (including premium)

On First Call Rs. 20 per share

On Final Call Rs. 30 per share.

Applications were received for 3,000 equity shares. 2,000 equity shares were allotted to the applicants. The remaining applications for 1,000 equity shares were rejected and the application money thereon refunded.

All the amounts were duly received except from Mr. Ram to whom 80 equity shares were allotted. He failed to pay the amounts due on first and final calls. These shares were subsequently forfeited.

Pass the necessary Journal Entries.

#### 5. Solve **any two** from the following:

14

1) Lovely Ltd. went into voluntary liquidation on 31st March, 2017. The following Balance Sheet was prepared:

Liabilities	Rs.	Assets	Rs.
Equity share capital		Goodwill	30,000
14,550 shares of Rs. 10 each	1,45,500	Leasehold property	25,000
Preferential creditors	4,000	Sundry Assets	1,42,120
Partly secured creditors	29,180	Cash at bank	500
Unsecured creditors	79,160	Profit and Loss Account	61,380
Bank overdraft	1,160		
	2,59,000		2,59,000

The liquidators realized the assets as follows:

- 1) Leasehold property which was used to pay first to partly secured creditors Rs. 18,000
- 2) Sundry Assets Rs. 99,500
- 3) Cash at bank Rs. 500

The liquidation expenses is amounted Rs. 1,170

The liquidator's remuneration was agreed at 2.5% on the amount of assets realized and 2% on the amount paid to unsecured creditors.

Prepare Liquidators Final Statement of Account.



2) Following is the Trial Balance of Good Hope Ltd. as on 31st March 2017:

Particulars	Debit	Credit
	Amount	Amount
Opening stock	75,000	
Sales		3,50,000
Purchases	2,45,000	
Wages	50,000	
Discount		5,000
Furniture	17,000	
Salaries	7,500	
Rent	4,950	
Sundry Expenses	7,050	
Profit and Loss Appropriation A	c/c	15,030
Dividend paid	9,000	
Share capital		1,00,000
Debtors and creditors	37,500	17,500
Plant and machinery	29,000	
Cash at bank	16,200	
Reserve		15,500
Patent and Trade mark	4,830	
	5,03,030	5,03,030

Prepare Profit and Loss Account for the year ended 31<sup>st</sup> March 2017 and Balance Sheet as on that date after taking into consideration the following adjustments:

- 1) Stock on 31st March 2017 was valued at Rs. 82,000
- 2) Depreciation on fixed assets @ 10%
- 3) Make a provision for income tax @ 50%
- 4) Provide corporate dividend tax @ 10%.
- 3) Explain functional areas of business ethics.

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**SLR-SB - 35** 



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## B.Sc. – II (Semester – IV) (Entrepreneurship) Examination, 2018 (New – CBCS) Paper – VIII: INTERNATIONAL MARKETING AND

MAR	KETING DECISION	
Day and Date: Friday, 4-5-2018 Time: 10.30 a.m. to 1.00 p.m.		Max. Marks : 70
1. Choose the correct answer from	m given alternative :	14
1) The Marketing mix does no	t include	
a) Product	b) Place	
c) Practically	d) Promotion	
2) Marketing is a	activity.	
a) Universal	b) Fixed	
c) Temporary	d) None of these	
3) This world organization mor	nitor trade and resolve disputes	
a) WTO	b) GSP	
c) IMF	d) World Bank	
4) The Price motive is an exam	nple of	
a) Rational Motive	b) Emotional motive	
c) Subjective Motive	d) Prestige motive	
5) The top Country in terms of N	Marketing research expenditure is _	
a) The United Kingdom	b) The Universal State	
c) Germany	d) Japan	
6) The partnership at corporat	e level is	
a) Licensing	b) Joint venture	
c) Management contact	d) Trunkey operation	

7)	The world largest exporter of serv	vice	es is
	a) The United State	b)	Canada
	c) Belgium	d)	Japan
8)	The world's most international cu	rre	ncy is the
	a) U. S. doller	b)	British Pound
	c) Euro	d)	Japanese Yen
9)	This is a fixed system of exchange	ge	rate
	a) Per value	b)	Wideband
	c) Crawling Peg	d)	Flexible
10)	describes char	ige	s in an individual behavior arising from
	experience.		
	a) Modeling	b)	Motivation
	c) Perception	d)	Learning
11)	The amount of money expected r is called	eq	uired, or given in payment for something
	a) Plan	b)	Price
	c) Product	d)	Process
12)	GME stands for		
	a) Global Marketing Environmen	t	
	b) Global Marketing Earning		
	c) Global Marketing Essential		
	d) Global Marketing Energy		
13)	EDI stands for		
	a) Electronic Data Interchange	b)	Easy Data Interchange
	c) Economic Data Interchange	d)	Era Data Interchange
14)	FT stands for		
	a) Fast Trade	b)	Foreign Trade
	c) Fixed Trade	d)	Frequency Trade

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2.	Answer any seven of the following:		14
	A) What is Planning?		
	B) What is Product?		
	C) Define Decision.		
	D) What is consumer?		
	E) Define e-commerce.		
	F) What is Retailer?		
	G) Define Technology.		
	H) What is Communication?		
	I) Define International.		
3.	A) Answer <b>any two</b> of the following:		10
	1) What is Product ? Explain types of Product.		
	2) What is Consumer Behavior? Explain the model of behavior.		
	3) Write down types of distribution Channel.		
	B) Describe in short E-Marketing.		4
4.	Answer any two of the following:		14
	1) Describe the advertising strategy in Competitive market.		
	2) What is e-commerce? Write down application of e-commerce.		
	3) Describe:		
	i) Market Selection.		
	ii) Product planning and development.		
5.	Answer any two of the following:		14
	1) What is price? Write down needs of Pricing.		
	2) Explain the advantages and disadvantage of e-commerce.		
	3) Define Wholeseller. Explain types and function.		
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**SLR-SB - 36** 

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## B.Sc. – II Entrepreneurship (Semester – IV) Examination, 2018 INDUSTRIAL CHEMISTRY (Paper – VII) Analytical and Industrial Aspects of Physical Chemistry (New CBCS)

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- - a) Optical density

- b) Transmittance.
- vi) Write limitations of flame photometry
- vii) What is meant by PH and POH?
- viii) Write advantages of Quinhydrone electrode.
- ix) Mention different types of conductivity cell used for conductance measurement.



3.	A)	Answer any	two of the	following:
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10

- i) Explain diagrammatically basic circuit of Wheatstone bridge.
- ii) Write a note on Total consumption burner.
- iii) Write various reasons for deviation from Beer's law.
- B) At 298 k the equivalent conductance at infinite dilution of Nh<sub>4</sub>Cl and NaOH are 149.7 and 248.6 Ohm<sup>-1</sup> Cm<sup>2</sup> respectively. The transport number of NH<sub>4</sub>+ & OH<sup>-</sup> ions in these electrolytes are 0.392 and 0.797 respectively. Calculate the Equivalent conductance of NH<sub>4</sub>OH at infinite dilution.

4. Answer any two of the following:

14

4

- Mention different types of conductometric titration. Explain the conductometric titration between weak acid and weak base.
- ii) Discuss the use of glass electrode with reference to its limitations and precaution during the measurement.
- iii) Describe the construction and working of a single cell photoelectric colorimeter.
- 5. Answer any two of the following:

14

- Describe potentiometric methods to determine the end points of the following titration.
  - a) Oxidation-reduction
- b) Precipitation.
- ii) Give different characteristics of flame. Describe in details laminar-flow burner.
- iii) Explain moving boundary method with neat labeled diagram.

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## B.Sc. (Part – II) (Semester – IV) (Entrepreneurship) (CBCS) Examination, 2018 INDUSTRIAL CHEMISTRY (Paper – VIII) (New) Industrial Aspects of Applied Chemistry

		trial Aspects of			•	•
-	d Date : Monday, 7 10.30 a.m. to 1.00					Total Marks : 70
1	n (3) <b>A</b>	II questions are co raw neat labeled o ecessary. II questions carry igures to the right	diag <b>eq</b> i	gram and give ed u <b>al</b> marks.		tions <b>wherever</b>
	lect the most correct ntence:	ct alternative from	am	ong those giver	n be	elow and rewrite the <b>14</b>
	In ore, r a) Halide The process of cle	b) Sulphide	c)	Native		Oxide
")	a) Pickling	b) Washing			d)	All of these
iii)	One of main conte a) Ammonia			Hydrogen	d)	Methane
iv)	Optical glass may a) Staple glass c) Fiber glass	also be known as	,	Crooker's glass	8	
v)	Triple super phosp a) N <sub>2</sub> O <sub>5</sub>				d)	None of these
vi)	In chromic acid an a) 9	odizing process, _ b) 6	c)		ac d)	
vii)	Urea has highest _a) Nitrogen				d)	Sodium
viii)	The sharp edges of glass are removed by cutting, grinding and polishing these process called as  a) Shaping b) Fusion c) Finishing d) Annealing					
ix)	The Greek word 'ka) Glass	•	,	Fuel	,	Ceramic
x)	The infusible mass flux is called	,	,		,	
	a) Slag	b) Matrix	c)	Cullets	d)	Minerals

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xi)	For good quality nickel plating, the o a) $2-3$ b) $3-4$	ptimum pH ranges c) 4 – 5	
xii)	<ul><li>sold in market as muriate</li><li>a) Super phosphate</li><li>c) Potassium fertilizer</li></ul>	b) Ammonium sul	phate
ŕ	The pieces of waste glass is known a) Flux b) Cullets is used where sea water of	c) Slag	d) None of these
,		b) Moderate heat	
i) ii) iii) iv) v) vi) vii) viii)	swer any seven of the following: Define Native ore and oxidized ore. What are basic principles of electrople Write the factors which affects on the Write the properties of glass. What is ceramic? Give it's two application of magnet Give any two application of anodizing Write the good qualities of an ideal fee What are colored glasses?	e fertility of soil. cation. etic separation meth	nod of ore.
,	Attempt <b>any two</b> of the following:  i) Explain the types of cements and  ii) Describe the raw materials used f  iii) Explain the pollution caused by fe	or the preparation or the preparation of the control of the contro	of glass.
4. Ans i) ii)	Distinction between calcinations and swer <b>any two</b> of the following: Describe electroplating of chromium. Give the classification of fertilizers ac soil with example. Describe in detail the types of glass.	-	14 ode of operation on
i) ii)	ite note on <b>any two</b> of the following: Manufacturing of Portland cement by Manufacturing of glass by tank furnace Extraction of Iron by blast furnace.	•	14 Set P
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#### B.Sc. II (Entrepreneurship) (Semester – IV) (New CBCS) Examination, 2018 Microbial Biotechnology MOLECULAR BIOLOGY (Paper – VII)

•		d Date : Tuesday, 10.30 a.m. to 1.00					Total Mar	ks : 70
1.	Re	write the correct al	ternative from the	follo	owing question	s:		14
	1)	In A – DNA	_ base pairs are ¡	ores	ent in per turn	of th	ne helix.	
		a) 10	b) 11	c)	12	d)	13	
	2)	The base thymine	is always paired	with				
		a) Adenine	b) Guanine	c)	Cytosine	d)	Thymine	
	3)	Uvr ABC endonuc	lease is present i	n	system.			
		a) Mismatch repa	ir	b)	Nucleotide ex	cisic	n repair	
		c) Base excision	repair	d)	SOS repair			
	4)	amino ad						
		a) Leucine	, , , ,	-		-		
	5)	subunit of	E.coli RNA polyn	nera	se is responsib	ole fo	or gene	
		selection.	h) Data	۵۱	0	\اء	Ciara a	
	0)	a) Alpha	•	•	Omega	a)	Sigma	
	6)	is not for	ınd in an <i>E.coii</i> re	piica	ation fork.			
		<ul><li>a) DnaA</li><li>b) Primase</li></ul>						
		c) PCNA						
		d) Single-strande	d DNA bindina pro	oteir	1			
	7)	Full expression of						
	- /	a) lactose and cA	•	•	allolactose an	d cA	MP	
		c) cAMP		,	lactose			
	8)	DNA polymerase	III is thought to ad	ld ni	ucleotides			
	ŕ	a) to the 5' end of the RNA primer						
		b) to the 3' end of	the RNA primer					
		c) in the place of	the primer RNA a	fter	it is removed			
		d) on single stran	ded templates wit	hou	t need for an R	NA	primer	



9)	Enzyme that induces double strand called as	breaks in DNA and rejoins them is	
	a) Restriction endonuclease	b) DNA gyrase	
	c) DNA ligase	d) DNA polymerase	
10)	Ultraviolet radiation causes DNA dan	nage by formation of	
	a) cytidine dimer	b) thymidine dimer	
	c) guanine dimer	d) adenine dimer	
11)	Archea is considered as a separate based on	group from bacteria and eukaryotes	
	a) genome sequence	b) 16S rRNA gene sequence	
	c) 23S rRNA gene sequence	d) EFTu sequence	
12)	Okazaki segments are small piece nucleotides and are formed in	es of DNA containing 1000 to 1500	
	a) lagging strand	b) sense strand	
	c) leading strand	d) non sense strand	
13)	In bacterial promoters, desc		
	a) The 5' untranslated region	b) The 35 box	
1.4	c) The-10 box	d) The termination sequence	
14,	DNA polymerase is required for the s  a) DNA from DNA	b) RNA from RNA	
	c) RNA from DNA	d) DNA from RNA	
2. Ar	nswer <b>any seven</b> of the following:	-,	14
1)	DNA Polymerase in prokaryotes.		
2)	Topoisomerase.		
3)	Draw the Structure of DNA.		
4)	The Central Dogma.		
5)	Ribosome structure.		
6)	RNA polymerase in eukaryotes.		
7)	Silent of DNA.		
8)	Operators.		
9)	Central Dogma.		



<ul> <li>A) Answer any two of the following:</li> <li>1) Explain Genetic code and its properties.</li> <li>2) Describe in detail Nucleotide Excision repair system in prokaryotes.</li> <li>3) Write a detail note on Translation in prokaryotes.</li> </ul>	10
B) Write a detail note on Replication in prokaryotes.	4
Answer <b>any two</b> of the following:  1) Describe in brief Transcription in Prokaryotic Cell.  2) Write a detail note on Rolling Circle Model of DNA.  3) Explain in detail Lac Operon.	14
Answer <b>any two</b> of the following:  1) Briefly explain types of DNA.  2) Describe in brief Enzyme involved in eukaryotic Replication.  3) Write a essay on Post transcriptional modification.	14
	<ol> <li>Describe in brief Transcription in Prokaryotic Cell.</li> <li>Write a detail note on Rolling Circle Model of DNA.</li> <li>Explain in detail Lac Operon.</li> <li>Answer any two of the following:</li> <li>Briefly explain types of DNA.</li> <li>Describe in brief Enzyme involved in eukaryotic Replication.</li> </ol>



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### B.Sc. – II Entrepreneurship (Semester – IV) (New CBCS) Examination, 2018 MICROBIAL BIOTECHNOLOGY (Paper – VIII) Food and Dairy Technology

	rood and L	Dairy recrinology	
Day and Date: Frid Time: 10.30 a.m. t	•	Max. Mark	s:70
2	2) Draw a <b>neat</b> labe	compulsory and carry equal marks. Illed diagram wherever necessary. Int indicate full marks.	
1. Rewrite the follow	wing sentences by cho	oosing correct alternatives from given below :	14
i) Cottage che	ese is an example o	of .	
A) Eye chee	ese	B) Fresh unripened cheese	
C) Stretched	d curd cheese	D) Fresh Cheese	
ii) Microbial qu	ality of milk is detern	nined by test.	
A) Caseinas	se	B) Amylase	
C) Crowded	plate	D) MBRT	
iii) Temperature	e used in LTH treatm	nent is °C during pasteurization	
A) 50.1	B) 62.8	C) 71.1 D) 92.2	
iv)i	is the principal carbo	phydrate in the milks of all mammals.	
A) Maltose		B) Lactose	
C) Sucrose		D) Dextrose	
v) Food fermer	ntations include		
A) Leavenin	g bread	B) Pickling	
C) Alcohol p	roduction	D) All of these	
vi) The preserv	ation techniques usi	ng radiation is also known as	
<ul><li>A) Hot steril</li></ul>	ization	B) Cold sterilization	
C) Heat ster	ilization	<ul><li>D) Dry sterilization</li></ul>	
vii)	$_{\scriptscriptstyle \perp}$ is degradation of fa	atty foods which gives foul smelling.	
A) Fermenta	ation	B) Putrefaction	
C) Rancidity	,	D) Sacchacrification	

viii)	Aspergillus flavus p	rodu	ced		type of toxin.			
	A) Citrate	B)	Afla	C)	Beta	D)	Tetanus	
ix)	Most variable const	ituer	nt of milk is					
	A) Protein	B)	Fat	C)	Lactose	D)	Mineral	
x)	Temperature used of	durin	g UHT pasteur	iza	tion is		_ °C.	
	A) 10-20	B)	60-70	C)	40-50	D)	130-140	
xi)	The significance of	past	eurization is to					
	A) Improve flavour			,	Increase keep	ing	quality	
	C) Improve color			•	None of these			
XII)	is ex	xamp	ole of non peris					
	<ul><li>A) Milk</li><li>C) Onion</li></ul>			,	Egg Cereals			
	Yellow color of milk	fat is	s due to preser	,				
XIII)	A) Vitamin D	idi	o due to precer		Carotinoids			
	C) Calcium			,	Folic Acid			
xiv)	Tests for proper parenzyme.	aste	urization are b	ase	ed on the activ	/ity	of	
	A) Lipases			B)	Catalase			
	C) Protease			D)	Phosphatase			
2. An	swer <b>any seven</b> of t	the fo	ollowing :					14
i)	Define Canning.							
ii)	Define Psychrophile	es.						
iii)	Define food infection	n.						
iv)	MBRT test.							
v)	What is water activi	ty?						
vi)	Define Fermentation	n.						
vii)	Define Thermophile	es.						
viii)	What is HTST?							
ix)	Types of Cheese							



3.	<ul> <li>A) Answer any two of the following:</li> <li>i) Describe in detail chemical methods of food preservation.</li> <li>ii) Write in detail composition of ice-cream.</li> <li>iii) Write in detail microbial food poisoning.</li> <li>B) Discuss in detail methods of pasteurization.</li> </ul>	10
4.	Answer <b>any two</b> of the following:  i) Describe in detail cheese production.  ii) Explain in brief microbial examination of milk.  iii) Describe in detail microbial spoilage of meat and poultry products.	14
5.	Answer <b>any two</b> of the following:  i) Write a note on food as substrate for microorganism.  ii) Explain in detail various methods of Butter production.  iii) Write in detail preservation of food by using radiation.	14

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#### B.Sc. – II (Semester – IV) (Entrepreneurship) Examination, 2018 (Old – CGPA Pattern) CORPORATE ACCOUNTING AND PROFESSIONAL ETHICS (Paper - V)

Time: 10.30 a.m. to 1.00 p.m.

Day and Date: Thursday, 3-5-2018 Max. Marks: 70 **N. B.** : 1) **All** questions are **compulsory**. 2) Figures to the **right** indicate **full** marks. 14 1. Multiple choice questions: 1) Document that consists of all ethical standards that employer's expect from employees is classified as \_\_\_\_\_ A) Ethical code B) Descriptive code C) Procedural code D) Distributive code 2) Justice and fairness of a result of q decision is classified as \_\_\_\_\_\_ A) Descriptive Justice B) Procedural Justice C) Distributive Justice D) Severance Justice 3) Required rate of return in calculating bonds cash flow is also classified as A) Going rate of return B) Yield C) Earning rate D) Both of A)and B) 4) Globalization opportunity for paid work for women has denied them \_\_\_\_\_ A) Global Health B) Good Education

C) Permanent job D) None of these 5) Optimization offered the practical basis for targeting A) Product B) Customers C) Decision D) Government 6) The aim of the MNC is to boost accounting profitability by shifting funds around the A) Country B) Region C) World D) Market 7) For the investment weighed average time to maturity classified as \_\_\_\_\_\_ A) Premium time B) Standard time C) Mean time D) Distribution

Set P

3.	A)	Attem	pt <b>any</b>	two of	the	following	)
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- 1) Explain in detail Corporate Governance.
- 2) Role of Information Technology.
- 3) Importance of business ethics.
- B) Rearrange the following items of a manufacturing company under the three heads:
  - 1) Live stock
  - 2) Goodwill
  - 3) Patents
  - 4) Book Debts
  - 5) Advances paid
  - 6) Loose tools
  - 7) Bills receivable
  - 8) Vehicles
  - 9) Work in progress
  - 10) Cash in hand.
    - A) Fixed Assets
    - B) Current Assets
    - C) Loan and Advances

#### 4. Attempt **any two** of the following:

14

- 1) Role of MNC.
- 2) Describe Schedules of final A/c of company in detail.
- 3) Balance Sheet as on 31-3-2003.

Liabilities	H Ltd. (Rs.)	S Ltd. (Rs.)	Assets	H Ltd. (Rs.)	S Ltd. (Rs.)
Equity Shares			Investment (12000		
capital (Rs. 10 each)	5,00,000	1,50,000	equity shares)	1,90,000	_
General Reserve	80,000	30,000	Machinery	2,50,000	1,50,000
Profit and Loss A/c	70,000	60,000	Sundry Debtors	50,000	50,000
Sundry Creditors	80,000	40,000	Cash/Bank	3,00,000	1,15,000
Bills Payable	60,000	35,000			
Total	7,90,000	3,15,000		7,90,000	3,15,000
					O-4 D

#### Additional information:

- 1) H Ltd., purchased 12,000 equity shares of S Ltd., on 1/4/2002 on which date, S Ltd., General Reserve at Rs. 10,000 and Profit and Loss stood at Rs. 20,000.
- 2) Prepare a Consolidated Balance Sheet.

#### 5. Attempt **any two** of the following:

14

- 1) Ethics in HRM.
- 2) Raj products Ltd., prepare Balance Sheet in vertical from with proper Schedules as on 31-3-2005.

Liabilities	Rs.	Assets	Rs.
Share capital	6,50,000	Land and Building	3,15,000
General Reserve	65,000	Freehold property	3,00,000
Reserve Fund	55,000	Plant and Machinery	1,40,000
Share Premium	40,000	Sinking Fund Investment	1,00,000
Debentures	1,60,000	Closing stock	1,25,000
Bank Overdraft	80,000	Sundry Debtors	95,000
Sundry Creditors	70,000	Cash/Bank	65,000
Bills payable	40,000	Bills Receivable	40,000
<b>Unclaimed Dividend</b>	20,000	Prepaid Expenses	20,000
Provision Tax	45,000	Preliminary Expenses	25,000
Total	12,25,000	Total	12,25,000

3) Following information pertains to Clinton Corporation Ltd.

Particulars	Rs.
20,000, 12% Preference shares of Rs. 10 each	2,00,000
50,000 Equity shares of Rs. 10 each	5,00,000
Average Annual Profits before tax	2,00,000
Income tax	30%
Transfer to Reserve	20%
Normal return in similar industry	25%

Mr. Rahul holds 400 equity shares of the company. He has requested you value his shareholding on the basis of above information. Please do the needful.

----- Set P


### **SLR-SB - 41**

Seat	
No.	

	B.Sc. – II (Seme	, ,	preneursnip) E A Pattern)	examination, 2018	
INTER	RNATIONAL MA	•	,	ECISIONS (Paper	– VI)
-	nd Date : Friday, 4 10.30 a.m. to 1.00			Max. Mark	s:70
	,	questions are <b>co</b> gures to the <b>right</b> i		ks.	
1. Mu	ultiple choice ques	tions :			14
1)	into homogeneou	marketing us sub-sections of 2) P. Ducker	customer.	sub-dividing of market 4) Howard	et
2)	In the	nd	s a special and u 2) Family bra 4) Combination	nd	
3)	revenue began to	•		es in the market, sale 4) Suturing	S
4)	through trained s	=		use door to door selling 4) Promotion	g
5)	In buying process  1) Culture  3) Financial state	s is r us of customer	2) Social		
6)		nguishes a produc eatures perceived		similar offerings on th anning	e
7)	The is a the particular pro 1) Initiator		suggests or think  3) Decider	s of the idea of buying 4) User	g

 Convenience product
 Specialty product 3) Specialty product 4) Technological product 2. Solve any seven of the following: 14 1) Segmentation 2) Consumer product 3) Direct marketing

4) Global brand

		-3-	3LN-3D - 41
	5)	Multinational company	
	6)	Hyper marketing	
	7)	Sponsorship	
	8)	Customer loyalty	
	9)	Market selection.	
3.	A)	Attempt <b>any two</b> of the following:  1) Promotion 2) Product life cycle 3) Distribution channel.	10
	B)	What is global brand?	4
4.	Att	empt any two of the following:	14
	1)	What is price war?	
	2)	What is e-marketing?	
	3)	What are the channels of distribution?	
5.	Att	empt any two of the following:	14
	1)	What is the price? Give the different types of prices?	
	2)	Explain global marketing environment.	
	3)	What means consumer behaviour? Explain any two models.	

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Set P

### B.Sc. – II (Semester – IV) (Entrepreneurship) Examination, 2018 INDUSTRIAL CHEMISTRY (Paper – V) (Old CGPA) Analytical and Industrial Aspects of Physical Chemistry

•	nd Date : Saturo 10.30 a.m. to 1	•		Max. Marks : 70
I	nstructions :	<ol> <li>All questions are c</li> <li>Draw neat diagram</li> <li>Figures to the right</li> <li>Use of logarithmic allowed.</li> </ol>	ms <b>wherever</b> ned <b>ht</b> indicate <b>full</b> m	arks.
1. Ch	noose the most	correct alternative for	the following an	d rewrite the sentence: 14
1)	The S.I. unit o	f conductance is		
	a) ohm		b) ohm <sup>-1</sup>	
	c) siemen		d) mhos	
2)	The equation	It = I010-6	represents_	
	a) Lambert's	slaw	b) Grotthus la	aw
	c) Beer's lav	v	d) Einstein's	law
3)	The material r	most commonly used i	n making prisms	in flame photometry
	a) Glass	b) Quartz	c) Metal	d) Non-metal
4)	Which of the f	ollowing method gives	exact end point	?
	a) Second d	erivative	<ul><li>b) First deriv</li></ul>	ative
	c) Classical		d) All of these	е
5)	increases.	th increase in 1°C temp	perature the cond	luctivity of the electrolyte
	a) 50%	b) 2.5%	c) 25%	d) 0.25%
6)	The photo cur	rents in photoelectric o	colorimeters are	measured by using
	a) Voltmeter	b) Ammeter	c) Conductor	neter d) Galvanometer

R-S	B – 42	2-		
7)	Which of the following is not a strong	g electroly	rte?	
	a) NH <sub>4</sub> OH	b) Agl	10 <sub>3</sub>	
	c) NaCl	d) HC		
8)	The emf of a concentration cell is de	termined	by using	
	a) Voltmeter	b) Pot	entiometer	
	c) Ammeter	d) Gal	vanometer	
9)	The formula $C_6H_4O_2$ . $C_6H_4$ (OH) $_2$ re	presents		
	a) Quinhydrone b) Quinone	c) Hyd	droquinone	d) None of these
10)	For flame photometry			
	a) Only solid sample can be used			
	b) Only liquid sample can be used			
	c) Both solid and liquid sample car	be used		
	d) No sample is necessary			
11)	The conductance of the solution dep	ends on _		
	a) Number of ions	b) Spe	ed of ions	
	c) Mobility of ions	d) All	of these	
12)	In potentiometric measurements, Sat as	turated Ca	lomel Elect	rode (SCE) is used
	a) Indicator electrode	b) Ref	erence elec	etrode
	c) Platinum electrode	d) Hyd	drogen elec	trode
13)	The burner in which sample, fuel and flame is	d oxidant a	are mixed b	efore reaching to
	a) Mecker burner	b) Lu	n de ga	mph burner
	c) Laminar-flow burner	d) Nor	ne of these	
14)	In total consumption burner	of sample	is used.	
	a) 5% b) 50%	c) 95%	<b>6</b>	d) 100%
An	swer any seven of the following:			
i١	Define nH and nOH			

2.

14

- i) Define pH and pOH.
- ii) Give advantages of potentiometric titration.
- iii) Define the following terms.
  - i) Equivalent conductance
  - ii) Specific conductance.

iv)	Define conductance and	d mention its	SI unit.
-----	------------------------	---------------	----------

- v) Give the block diagram of flame photometer.
- vi) List various burners used in flame photometer.
- vii) Define:
  - i) Optical density
  - ii) Transmittance.
- viii) What is cell constant?
- ix) How conductivity water is prepared?
- 3. A) Answer any two of the following:

- i) Write the methods of locating end-points of potentiometric titration.
- ii) Explain with the help of diagrams atleast two types of conductivity cell.
- iii) Define Lambert's and Beer's law.
- B) What are the types of conductors?

4

#### 4. Answer any two of the following:

14

- i) Describe the basic circuit of direct reading potentiometer.
- ii) Describe the construction and working of a single cell photoelectric colorimeter.
- iii) What are the applications of flame photometry in qualitative and quantitative analysis?
- 5. Answer any two of the following:

14

- 1) Mention different types of conductometric titration. Explain conductometric titration between strong acid and weak base.
- 2) Write any two functions of burners in flame photometry. Describe in details laminar-flow burner.
- 3) Define transport number. What are the factors influencing the transport number?

**SLR-SB - 43** 

Seat	Set	D
No.	Set	

## B.Sc. – II (Semester – IV) (Entrepreneurship) Examination, 2018 INDUSTRIAL CHEMISTRY (Paper – VI) (Old CGPA – Pattern) Industrial Aspects of Applied Chemistry

•	d Date : Monday, 10.30 a.m. to 1.00			Total Marks :	: 70
	iÍ)	<b>All</b> questions are Draw neat labele necessary. Figures to the <b>ri</b>	ed diagrams and	write equations <b>wherever</b> marks.	
	lect the most correntence.	ect alternative fro	om those given b	elow and rewrite the	14
i)	The percentage of	of carbon in cast	iron is	%	
	a) 2.5-4.0	b) 0.5-2.5	c) $4.0-5.0$	d) 5.0-6.5	
ii)	Glass is	of heat and	d electricity.		
	a) conductor		b) insulator		
	c) semiconducto	or	d) all the above		
iii)			•	luminate and prepared by °C is called	
	a) high alumina		b) low alumina		
	c) portland		d) sorel's		
iv)	In electroplating _	pla	ıys an important r	role.	
	a) Electrolysis		b) Electro-osmosis		
	c) Osmosis		d) None of thes	е	
v)	The Greek word '	'keromos" means	S		
	a) Glass	b) Polymer	c) Fuel	d) Ceramic	
vi)	The ores and mir	nerals which are	associated with s	some impurities are	
	a) flux	b) slag	c) gangue	d) silicate	

2.



vii)		Clay, feldspar and sand are the three main raw materials used in making the							
	a)	cement	b)	glass	c)	ceramic	d)	fertilizer	
viii)		ha	s th	ne material wi	th h	igh resistance	e to	corrosion and have	
	a r	efractory prop	erti	es.					
	a)	Porcelain			b)	Foamed qua	rtz	ceramics	
	c)	Silica ceramio	cs		d)	Clay			
ix)		ce	me	nt is also knov	wn a	as slag sulpha	ate	cement.	
	a)	White			b)	Coloured			
	c)	Super sulphat	е		d)	Sorrels			
x)	Sa	and lime and so	da	ash are the m	ajo	r ingredients o	of _		
	a)	glass	b)	cement	c)	ceramics	d)	fertilizer	
xi)		is	he	crushed or bro	oke	n glass obtair	ed	from imperfect articles	
		waste glass.							
	a)	Commercial	b)	Special	c)	Colored	d)	Cullet	
xii)		fe					fpc	otash.	
	•	Potassium							
	c)	Super phosph	ate		d)	Ammonium p	ho	sphate	
xiii)		P and K consi			anti	ities by plant f	for	their growth are called	
	a)	primary	b)	secondary	c)	tertiary	d)	micro	
xiv)	In	electroplating,	the	electro depo	sitic	on takes place	at		
	a)	Cathode			b)	Anode			
	c)	Cathode and A	٩no	de	d)	None of thes	е		
An	swe	er <b>any seven</b> c	f th	e following :					14
i)	Na	me the princip	les	used in electi	ropl	ating.			
ii)	Wł	nat is main rav	/ ma	aterial used ir	n ma	anufacture of	gla	iss?	
iii)	Wł	nat are the qua	alitie	es of an ideal	fert	ilizer?			
iv)	Wı	rite the any two	pr	operties of ce	erar	nics.			



	v)	What do you mean by safety glass?	
	vi)	Define the term cathode efficiency and anode efficiency.	
	vii)	What are ceramics ?	
	viii)	Define:	
		i) Mineral	
		ii) Ore.	
	ix)	Name any two chemical methods used for reduction in metallurgy.	
3.	A) '	Write the short notes on <b>any two</b> of the following:	10
		i) Manufacturing process of Urea	
		ii) Anodizing	
		iii) Gravity separation method.	
	B)	What do you meant by hardening and case hardening?	4
4.	Att	empt <b>any two</b> of the following :	14
	i)	What is steel? Discuss the Bessemer process for manufacture of steel.	
	ii)	With the use diagram explain the production of urea.	
	iii)	Explain the manufacturing process of glass by tank furnace.	
5.	Att	empt <b>any two</b> of the following :	14
	i)	Distinction between calcinations and roasting.	
	ii)	Describe electroplating of nickel.	
	iii)	Explain the wet process for manufacture of port plant cement.	


**SLR-SB - 44** 

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# B.Sc. II (Semester – IV) (Entrepreneurship) (CGPA) Examination, 2018 MICROBIAL BIOTECHNOLOGY (Old) Paper No. V – Molecular Biology

		Paper No. V		•	•	
-	d Date : Tues 10.30 a.m. to	day, 8-5-2018 1.00 p.m.			Max. Ma	ırks : 70
	<b>N.B.</b> : 1	() <b>All</b> questions are () Draw a <b>neat</b> labe () Figure to the <b>rig</b>	elled diagra	m <b>wherev</b> e	<b>er</b> necessary.	
1. Re	write the follo	wing sentences by	choosing c	orrect alte	rnatives.	14
i)	is selection.	s the subunit of E.o	coli RNA po	lymerase i	s responsible for g	ene
	a) Alpha	b) Beta	c) Om	iega	d) Sigma	
ii)	Which of the	statements about	tRNAs is tru	ıe?		
	a) All organis	sms have more tha	n 20 tRNA (	genes		
	b) The three	-dimensional struc	ture of tRN/	As looks lik	ce a cloverleaf	
	c) tRNAs coi	ntain modified base	es			
	d) The seque	ence of the last 3 n	ucleotides	at the 3' er	nd of all tRNAs is th	e same
iii)	of	the following is not	found in ar	ı E-coli rep	lication fork?	
	a) DnaA		b) Prir	nase		
	c) PCNA		d) Sin	gle-strande	ed DNA binding pro	tein
iv)	en	zyme is responsib	e for joining	ı DNA fragı	ments.	
	a) DNA polyi	merase I	b) DN	A topoison	nerase I	
	c) DNA ligas	e	d) DN	A gyrase		
v)	•	polymerase II tra ctor is essential to	•	•	phosphorylation of on.	the
	a) Polymera	se II CTD	b) TFI	ID		
	c) TFIIH		d) TFI	IE		

#### **SLR-SB - 44**

-2-



vi)	Full expression of the lac operon red	quires
	a) lactose and cAMP	b) allolactose and cAMP
	c) cAMP	d) lactose
vii)	DNA polymerase III is adding nucleo	otides to
	a) the 5' end of the RNA primer	
	b) the 3' end of the RNA primer	
	c) the place of the primer RNA afte	r it is removed
	d) single stranded templates without	ut need for an RNA primer
viii)	An enzyme that induces double str called as	rand breaks in DNA and rejoins them is
	a) Restriction endonuclease	b) DNA gyrase
	c) DNA ligase	d) DNA polymerase
ix)	U V rays (UVr) ABC endonuclease i	is present in repair system.
	a) Mismatch	b) Nucleotide excision
	c) Base excision	d) SOS
x)	Ultraviolet radiation causes DNA da	mage by formation of the
	a) cytidine dimer	b) thymidine dimer
	c) adenine dimer	d) guanine dimer
xi)		a) gaariiro airrior
,	separates Archea group	, -
,	separates Archea group a) genome sequence	, -
,		from bacteria and eukaryotes. b) 16S rRNA gene sequence
,	<ul><li>a) genome sequence</li><li>c) 23S rRNA gene sequence</li></ul>	from bacteria and eukaryotes. b) 16S rRNA gene sequence
,	<ul><li>a) genome sequence</li><li>c) 23S rRNA gene sequence</li><li>Okazaki segments are small pier</li></ul>	from bacteria and eukaryotes. b) 16S rRNA gene sequence d) EFTu sequence
,	<ul> <li>a) genome sequence</li> <li>c) 23S rRNA gene sequence</li> <li>Okazaki segments are small pienucleotides and are formed in</li> </ul>	from bacteria and eukaryotes. b) 16S rRNA gene sequence d) EFTu sequence ces of DNA containing 1000 to 1500
,	<ul> <li>a) genome sequence</li> <li>c) 23S rRNA gene sequence</li> <li>Okazaki segments are small piernucleotides and are formed in</li> <li>a) lagging strand</li> </ul>	from bacteria and eukaryotes. b) 16S rRNA gene sequence d) EFTu sequence ces of DNA containing 1000 to 1500 b) leading strand d) non sense strand
xii)	<ul> <li>a) genome sequence</li> <li>c) 23S rRNA gene sequence</li> <li>Okazaki segments are small piernucleotides and are formed in</li> <li>a) lagging strand</li> <li>c) sense strand</li> </ul>	from bacteria and eukaryotes. b) 16S rRNA gene sequence d) EFTu sequence ces of DNA containing 1000 to 1500 b) leading strand d) non sense strand
xii)	<ul> <li>a) genome sequence</li> <li>c) 23S rRNA gene sequence</li> <li>Okazaki segments are small pier nucleotides and are formed in</li> <li>a) lagging strand</li> <li>c) sense strand</li> <li>In proof reading during DNA replicat</li> </ul>	from bacteria and eukaryotes. b) 16S rRNA gene sequence d) EFTu sequence ces of DNA containing 1000 to 1500 b) leading strand d) non sense strand
xii)	<ul> <li>a) genome sequence</li> <li>c) 23S rRNA gene sequence</li> <li>Okazaki segments are small pier nucleotides and are formed in</li> <li>a) lagging strand</li> <li>c) sense strand</li> <li>In proof reading during DNA replicate</li> <li>a) wrong nucleotides are inserted</li> </ul>	from bacteria and eukaryotes. b) 16S rRNA gene sequence d) EFTu sequence ces of DNA containing 1000 to 1500 b) leading strand d) non sense strand tion

Set P



XIV)	from defects in nucleotide excision repair?	
	a) Hereditary Nonpolyposis Colorectal Cancer (HNPCC)	
	b) Xeroderma Pigmentosum (XP)	
	c) Lynch syndrome	
	d) Diabetes	
2. An	swer any seven of the following.	14
i)	DNA Polymerases in prokaryotes.	
ii)	Activator.	
iii)	Initiation of replication in eukaryotes.	
iv)	RFLP.	
v)	Topoisomerase.	
vi)	Genetic code.	
vii)	The Central Dogma.	
viii)	Ribosome structure.	
ix)	Define Transcription.	
ŕ	Answer any two of the following.  i) Write in detail Replication in prokaryotes.  ii) Write a note on Nucleotide Excision repair system in prokaryotes.  iii) Explain in brief Chemical Method of DNA sequencing.	10
B)	Write a detail note on Translation in prokaryotes.	4
i) ii)	write in detail Rolling Circle Model.  Explain in detail Enzyme involved in eukaryotic Replication.  Explain in brief Lac Operon.	14
i) ii)	Describe in detail Isolation of Nucleic acid.  Explain in detail Post transcriptional modification.  Write in detail Transcription in Prokaryotic Cell.	14

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Seat	Set	D
No.	Set	<u> </u>

# B.Sc. - II (Semester - IV) (Entrepreneurship)

ks:70
14



viii)		sp	ecies involved in	cu	rdling of milk.		
		Lactobacillus			Rhizobium		
	C)	Azotobacter		D)	Bacillus thur	riengenesis	
ix)	Afl	a toxin in food	is produced by _				
	A)	Bacillus		B)	Azolla		
	C)	Azotobacter		D)	Aspergillus		
x)	Th	e aim of paste	urization milk is t	o_			
	A)	Improve flavo	or	B)	Increase kee	eping quality	
	C)	Improve color	r	D)	None of thes	se	
xi)	Fo	od value of ice	cream depends	to a	a large extent	on its	_
	A)	Flavor		B)	Volume		
	C)	Composition		D)	Color		
xii)			example of perisl				
	A)	Milk	B) Egg	C)	Onion	D) Potato	
xiii)	Ye	llow color of m	nilk fat is due to p	rese	ence of		
	A)	Vitamin D	B) Carotinoids	C)	Calcium	D) Folic Acid	
xiv)	Re	ennin enzyme i	is used in manufa	ctu	ring of		
	A)	Vitamin	B) Biodiesel	C)	Citric acid	D) Cheese	
2. An:	swe	er <b>any seven</b> o	of the following:				14
i)	De	efine Cream.					
ii)	WI	hat is HTST?					
iii)	De	efine Fermenta	tion.				
iv)	WI	hat is water ac	ctivity?				
v)	De	efine food poiso	oning.				
		-	hilic microorgani	sms	<b>).</b>		
,		mogenized mi					
•		ading of milk	<del></del>				
,		efine Canning.					
IX)	שט	anne Canning.					Cath



		02.1.02	
3.	A) Answer <b>any two</b> of the following :		10
	i) Explain in brief manufacture of tanned milk.		
	ii) Write a note on food as substrate for microorganism.		
	iii) Describe in brief process of cream preparation.		
	B) Explain in brief microbial examination of milk.		4
4.	Answer any two of the following:		14
	i) Describe in detail microbial spoilage of meat and poultry products	i <b>.</b>	
	ii) Write in detail preservation of food by using radiation.		
	iii) Describe in detail ice-cream production.		
5.	Answer any two of the following:		14
	i) Explain in detail various methods of milk pasteurization.		
	ii) Describe in detail manufacture of butter.		
	iii) Write in detail preservation of food.		



Seat	Set	D
No.	Set	

### B.Sc.- III (Entrepreneurship) (Semester – V) (CGPA) Examination, 2018 ENGLISH (Compulsory) Breakthrough

<b>=</b>	Breakthro		
Day and Date: Thursday, 12-4- Time: 2.30 p.m. to 5.00 p.m.	-2018		Max. Marks: 70
<b>N.B.</b> : 1) <b>All</b> qu 2) Figure	nestions are <b>com</b> es to the <b>right</b> ind	•	
1. A) Choose the correct alte	ernative :		10
1) Shaw believes that a	a society must no	t be judged by	
a) Its average pars	on	b) Its few rebels	}
c) Its Journalists a	nd editors	d) Its millions of	obedient subjects
2) The average parsor	teaches	at the	village school.
a) Honesty and eq	uality	b) Honesty and	religion
c) Religion and law	1	d) None of the a	bove
<ul><li>3) The United States wanted an All men are equal by White men are set of the control of</li></ul>	al superior		
<ul><li>4) The United States wa) Four score and</li><li>b) Four score and</li><li>c) Four score and</li><li>d) Four score and</li></ul>	six years eight years five years	yea	rs ago.
5) The value accorded free life like a male	writers.	·	vomen from living a
a) Decency b	) Humility	c) Anonymity	d) Chastity

2.



	6)						
		the genius of Shakespeare.					
		a) A priest	b) A bishop				
		c) A clergy	d) Nick Greene				
	7)	Those who love	are blessed by God	d.			
		a) Their fellowmen	b) God				
		c) Father and mother	d) Their duty				
	8)	The angel was writing in the book	of	_			
		a) Silver b) God	c) Gold	d) Prayer			
	9)	The ship in the poem 'O Capta	in ! My Captain !'	is a metaphor for			
		a) Abraham Lincoln	b) Walt Whitma	n			
		c) Shakespeare	d) America				
	10)	Our 'fearful trip' refers to					
		a) American Civil War	b) Spanish Civi	l War			
		c) British Civil War	d) Indian Civil V	Var			
B)		write the following sentences choo brackets :	sing the correct mo	dal auxiliary from	2		
	1)	Mahesh loves books	we take so	me for him ?			
		(Shall, Could, Must, Used to)					
	2)	I use your mo	bile, please.				
		(Could, Should, Must, Would)					
C)	Wri	ite the following sentences in indire	ect speech.		2		
	1)	Namdeo said, 'Oxygen is essentia	al for life'.				
	2)	Sneha said, 'Sachin studies for si	x hours every day'.				
An	swe	er <b>any seven</b> of the following quest	tions in brief :		14		
1)	Wh	at does average parson do in the v	village school ?				
2)	Wh	at are the opinions of Shaw about	Science?				
3)	Wh	y did we all blame ex-Kaisar, acco	ording to Shaw?				
,		, , , , , , , , , , , , , , , , , , , ,	J				



	4)	What did our fathers do four score and seven years ago, according to Lincoln?	
	5)	Why did the people of America meet together on a great battle-field of the war?	
	6)	Why did Lincoln say that we cannot consecrate the battle-field?	
	7)	What did a bishop declare, according to Virginia Woolf?	
	8)	Where isn't a genius like Shakespeare born, according to Woolf?	
	9)	What would have happened to any woman born with a great gift in 16 <sup>th</sup> century?	
3.	A)	Answer any two of the following:	8
		1) What is the theme of the poem 'Abou Ben Adhem'?	
		2) What dialogue does take place between Abou Ben Adhem and angel?	
		3) Why does the poet ask the captain to rise up?	
	B)	Write short reports on <b>any two</b> of the following:	6
		1) Celebration of 'Teachers' Day' in your college.	
		2) Prize Distribution Ceremony in your college.	
		3) Visit to Indian Institute of Chemical Technology (IICT), Hyderabad.	
4.	Ar	nswer any one of the following:	14
	1)	Prepare a presentation consisting of five charts or slides to a "New Samsung Mobile" in the market.	
	2)	Write a presentation on the topic "Water Management" using charts, transparencies or slides.	
5.	W	rite a transcript of group discussion on the topic "Loan Write-off to Farmers".	14

SL	.R	-S	B	_	49
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Seat No.	Set	Р

#### B.Sc. – III (Semester – V) (CGPA Pattern) Examination, 2018 Entrepreneurship BUSINESS FINANCE

•		ay, 13-4-2018					Max. Marks: 70
Time:	2.30 p.m. to 5	5.00 p.m.					
		1) <b>All</b> questions are		-			
	2	2) Figures to the <b>ri</b>	<b>ght</b> in	dicate <b>fu</b>	<b>II</b> marks	<b>.</b>	
	lect the most	correct alternative	from	among th	nose giv	en be	low and rewrite the
		is regarded as the	e life b	lood of b	usiness	;	• •
.,		io regarded de an				,	
	,	esource	,		•		
2)		ance deals with _			-		
,	a) Manageri	ial problems	b)	Financia	al proble	ems	
		ative problems					
3)	•	t function is under			-		
,	a) IRDA	b) RBI	c)	SEBI	d)	Govt.	of India
4)	SEBI is esta	blished on					
	a) 1990	blished on b) 1992	c)	1994	d)	1996	
		is source of short					
	a) Equity sh	are	b)	Preferer	nce sha	re	
	c) Debentur						
6)		ital was first starte					
		b) IDBI			d)	NIC	
7)	IMF is estab	lished on	·				
	•	b) 1945	•		•		
8)	•	sits are issued for		•			years.
	a) One	•					
9)		are the owners of					
	a) Share ho		,	Debentu		ers	
	c) Bond hole		,	Creditor			
10)		have come as a b				nediur	n investors.
	a) Mutual fu		•	Debentu			
	c) Equity sh	ares	d)	Public d	eposits		

**SLR-SB - 49** 11) Financial planning is the responsibility of \_\_\_\_\_\_. a) Production Manager b) Marketing Manager c) Finance Manager d) Human Resource Manager 12) Capital budgeting is investment decision in . . . a) Short-term b) Long-term c) Both a) and b) d) None of the above 13) The members of stock exchange are called as \_\_\_\_ a) Associates b) Brokers c) Traders d) investors 14) e-banking is also known as \_\_\_\_\_ b) Virtual banking a) Online banking d) All the above c) Internet banking 14 2. Solve any seven from the following: 1) Meaning of equity share. 2) Meaning of debenture. 3) What is a public deposit? 4) What is foreign exchange rate? 5) What is financial planning? 6) What is meant by finance lease? 7) What is international finance? 8) What is a World Bank? 9) Formula of pay back period method. 10 3. A) Write note on **any two** from the following: 1) Importance of business finance. 2) Explain functions of SEBI. 3) Explain sources of short-term finance. B) State the functions of stock exchange. 4 4. Write in brief answer from the following (any two): 14 1) Explain long-term sources of business finance. 2) Explain public placement method of marketing of securities. 3) Write note on international financial institutions. 14 5. Write in brief from the following (any two): 1) What is preference share? Define its types.

2) Define its advantages and disadvantages of lease financing.

3) What is venture capital? State its features and needs.

	I   I     I     II    I     II     II			SLR-SE	3 – 50
Seat No.				Se	et P
B.Sc.			nester – V) (CGP RCE MANAGEM		, 2018
•	d Date : Monday, 1 2.30 p.m. to 5.00 բ			Max. Ma	ırks : 70
	,	<b>All</b> questions a Draw diagram i	re <b>compulsory</b> . if necessary.		
1. Ch	oose correct alterr	ative from the f	ollowing :		14
1)	A career consist of A) three		ges. C) two	D) six	
2)	the applications for A) Selection  C) Placement		ng the most suitable of B) Recruitment D) Career plant	t.	ong
3)	A trainee moves for another that is call A) Job rotation C) Role play	•	nother and from one B) Coaching D) None of thes	·	n to
4)		_	given role as in a sta B) Managemer D) Role play		
5)	another higher on	9.	novement of an emp		
<b>a</b> `	A) Demotion	B) Training	C) Promotion	D) None of the	se
6)	When promotion  A) Horizontal	is made without B) Normal	increase in salary, i C) Vertical	t is called D) Dry	

B) Job description

D) Job evaluation

7) \_\_\_\_\_ is the rating of jobs in an organization.

A) Job analysis

C) Job specification

8)	The biggest drawback of Job.	_ is the absence of any standard factors of
	A) HRM	B) Job evaluation
	C) Selection	D) Job analysis
9)	The and and namely, external equity, internal	dministration is based on three principles, I equity and individual worth.
	A) Salary and incentives	B) Wages and incentives
	C) Salary and wages	D) All the above
10)	is anything that attra	cts a worker and stimulates him to work.
	A) Incentive B) Demotion	C) Promotion D) Benefits
11)	Benefits are membership-based	d non-financial rewards given to
	A) Entrepreneur	B) Leader
	C) Employee	D) All the above
12)	Both preventive and curative movers.	easures help protect of industrial
	A) Benefit	B) Health
	C) Safety	D) Development
13)	The Factories Act,	has laid down detailed provisions for
	maintaining safety at the work.	
	A) 1948 B) 1848	C) 1958 D) 1949
14)	The common approaches ofapproach and mutual goal settir	include casual approach, traditional approach.
	A) HRM	B) P.A.
	C) Training and development	,

2.	Solve any seven from the following:	14
	1) Introduce what is HRM?	
	2) What is recruitment?	
	3) What is performance appraisal?	
	4) What is allowance?	
	5) Introduce accident prevention.	
	6) Meaning of succession planning.	
	7) What is external mobility?	
	8) What is demotion?	
3.	A) Solve <b>any two</b> from the following:	10
	1) Function of HRM.	
	2) What are the types of promotion?	
	3) Various types of external mobility.	
	B) Limitations of career planning.	4
4.	Solve <b>any two</b> from the following:	14
	1) What are the role of Human Resource Management?	
	2) Various types of training method.	
	3) Elements of career development programme.	
5.	Solve any two from the following:	14
	1) Explain in detail employee health and safety.	
	2) Need of performance appraisal.	
	3) Various methods of P.A.	

-3-

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**SLR-SB - 51** 

Seat No.	Set	P
	1	

### B.Sc. – III (Semester – V) (Entrepreneurship) (CGPA) Examination, 2018 **INDUSTRIAL CHEMISTRY**

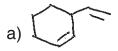
		Spectroscopi	c N	<b>lethods</b>					
•	d Date : Tuesday, 1 2.30 p.m. to 5.00 p.	Max. Mar	Max. Marks : 70						
Ins		questions are <b>com</b> res to the <b>right</b> ind v <b>neat</b> labelled dia	dica	ate <b>full</b> marks.					
1. Select most correct alternative among the following and rewrite the following: 14									
i)	i) IR spectroscopy is mainly useful in the determination of								
	a) Conjugation		b)	Functional gre	oup				
	c) Molecular weigh	nt	d)	Atomic weigh	t				
ii)	An example of Aux	cochrome is							
	a) $C \equiv C$		b)	-CO-					
	c) -NH <sub>2</sub>		d)	All these					
iii)	peak is								
	a) 50%	b) 90%	c)	0%	d) 100%				
iv)	<ul> <li>When a halogen atom is attached to methyl group, then the δ values</li> <li>a) decreases with electronegativity of halogen atom</li> <li>b) not affected by electronegativity</li> <li>c) increases wirh electronegativity</li> <li>d) negligible</li> </ul>								
v)	The finger print reg a) 1350 – 650 cm <sup>-1</sup> c) 4000 – 650 cm <sup>-1</sup>	-1	b)	m lies in the ra 4000 – 1350 650 – 50 cm	cm <sup>-1</sup>				
vi)	The transition ener			than $n{ ightarrow}\pi^*$ transfilm	ansition. d) greater				

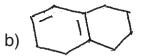
- vii) Molecular ions peak is not generally visible in case of
  - a) halides

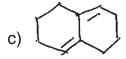
b) alcohols

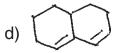
c) aldehydes

- d) ketones
- viii) Among the following which is magnetic nuclei
- b)  $_{6}C^{12}$
- d)  $_{7}N^{14}$
- \_\_\_\_\_ is an example of homocyclic diene. ix)









- x) Mass spectroscopy is a \_\_\_\_\_ technique.
  - a) high pressure

b) low temperature

c) low pressure

- d) high temperature
- xi) The proton is charged spinning nuclei with a nuclear spin equal to
  - a)  $\frac{1}{2}$
- b) 0
- c)  $\frac{1}{3}$  d)  $\frac{2}{3}$
- xii) The stretching frequency of C = C chromophore is \_\_\_\_\_ than that of C - C.
  - a) more
- b) less
- c) half
- d) equal
- xiii) In NMR spectroscopy, absorption of long wavelength radio frequency radiations by molecule causes change in
  - a) Electronic state
  - b) Vibrational state
  - c) Rotational state
  - d) Spin state
- xiv) For a non-linear molecule the number of fundamental modes of vibrations are calculated by the relation
  - a) 3N

b) 3N - 5

c) 3N - 6

d) 3N - 2

2. Answer any seven of the following:

14

- i) Calculate the modes of vibration in CO<sub>2</sub> molecule.
- ii) What is delta scale and Tau scale?
- iii) Deifne the term:
  - a) bathochromic shift
  - b) hypsochromic shift.
- iv) Predict the frequency shift of the carbonyl absorption in the following aldehyde.

- v) Define coupling constant with example.
- vi) What is magnetic nuclei and non magnetic nuclei?
- vii) Define parent ion and fragment ion.
- viii) Name the different transitions involved in UV spectroscopy.
- ix) Explain peak area.
- 3. A) Write short notes on (any two):

10

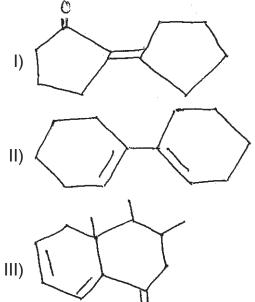
4

- i) Why tetramethyl silane (TMS) is used as internal reference in NMR spectroscopy?
- ii) Explain application of mass spectroscopy.
- iii) Discuss on functional group region.
- B) State and explain Lambert's-Beer Law with mathematical expression.

4. Answer any two of the following:

14

i) Calculate  $\lambda_{\text{max}}$  of the following compound.



- ii) Write the different basic parts used in proton nuclear magnetic resonance spectroscopy with schematic diagram.
- iii) State Hooke's law. How it is used to calculate the vibrational frequency of diatomic group?
- 5. Answer any two of the following:

14

- i) State and explain the theory of mass spectrometer with diagram.
- ii) Explain what types of vibrations are observed in IR spectroscopy.
- iii) Define chemical shift and deduce the structure of compound with following data:

Molecular formula: C<sub>4</sub>H<sub>8</sub>O

IR: 1720 cm<sup>-1</sup>

M/e:88

PMR : 2.7  $\delta(q, 2H)$ 

1.05  $\delta$ (3H, t)

1.12  $\delta$ (S, 3H)

\_\_\_\_

**SLR-SB - 52** 



a) Nucleic acid

c) Protein

Seat No.				Set P
B.Sc.	•	, ,	repreneurship) (Co RMENTATION TE	GPA) Examination, 2018 CHNOLOGY
•	d Date : Wedne 2.30 p.m. to 5.0	•	8	Max. Marks : 70
		2) Draw a neat	s are <b>compulsory</b> an labeled diagram <b>whe</b> ne <b>right</b> indicate <b>full</b> i	
1. Re	write the followin	ng sentences by	choosing correct alte	rnatives from given below: 14
i)		operty Rights ( va	, ·	of information and ideas
	a) Ethical		b) Commercial	
	c) Social		d) Moral	
ii)		can be paten	ted.	
	a) Basmati ric	:e	b) Machine	
	c) Process		d) All of these	
iii)	The antiviral g	•	eased by living cells i	n response to viral attack
	a) Interferon		b) Pyrogen	
	c) Phagocytes	3	d) Antibody	
iv)			orotein of pathogen it	f injected directly into the ine.
	a) Attenuated		b) Pollysacchride	е
	c) DNA		d) Subunit	
v)		is used for pr	roduction of xanthan g	gum.
		nas campestris		
	c) Pseudomoi	nas	d) Yeast species	}
vi)	The hormone i	nsulin helps in t	he regulation of	level in the blood.

b) Lipid

d) Sugar

b) Vinegard) Ethanol

a) Citric acid

c) Malic acid

**SLR-SB - 53** 



Seat	Set	D
No.	Jet _	

# B.Sc. – III (Semester – VI) (Entrepreneurship) Examination, 2018 ENGLISH (Compulsory) (CGPA) Breakthrough

Breakth	rough
Day and Date : Wednesday, 28-3-2018 Time : 10.30 a.m. to 1.00 p.m.	Max. Marks : 70
Instructions: 1) All questions are 2) Figures to the rig	e <b>compulsory</b> . <b>ght</b> indicate <b>full</b> marks.
1. Choose the correct alternative.	14
1) William Shakespeare adapts and rein his play  a) As You Like It	b) A Midsummer Night's Dream
<ul> <li>c) Comedy of Errors</li> <li>2) Speaking of Davy's Safety Lamp, M separated Thisbe and her lover.</li> <li>a) the fate</li> <li>b) parents</li> </ul>	d) Love's Labour Lost oore is reminded of that c) the wall d) the lion
<ul> <li>3) The party given by the Minister of I scheduled on</li> <li>a) Sunday, January 18</li> <li>c) Sunday, January 19</li> </ul>	Education of Mathilde and Loisel was b) Monday, January 19
<ul> <li>4) Loiselhad saved four hundred franca</li> <li>a) he had interest in shooting</li> <li>b) there was a threat to his life</li> <li>c) he wanted to present it to the Mid) he wanted to present it to his wif</li> </ul>	nister
<ul> <li>5) Mark Twain's Whitewashing the Fell</li> <li>a) The Adventures of Tom Sawyer</li> <li>b) The Adventures of Huckleberry I</li> <li>c) The Prince and the Pauper</li> <li>d) The Great American Novel</li> </ul>	nce is an extract from

6)	A great law of human action that Tom discovered to make a person covet a thing was					
	a) to make the thing easy to do					
	b) to make the thing difficult to attai	n				
	c) to make the thing simple to attain					
	d) to neglect the thing					
7)	In the poem 'In the Bazaars of Hyde gold for	erabad' the goldsmith makes girdles of				
	a) Musicians b) Maidens	c) Queens d) Dancers				
8)	In the poem <i>On Virtue</i> , Phillis Whe	atley says that wisdom is higher than				
	a) a rich b) a poor	c) a fool d) a wise				
9)	In the poem On Virtue the phras	se 'the false joys of time' indicates				
	a) joy that cannot be real					
	b) joy that is only transitory					
	c) joy that cannot be measured by	time				
4.0\	d) joy which is actually sadness					
10)	are sold by	derabad', tunics, mirrors and daggars				
	a) Goldsmiths b) Merchants	c) Ironsmiths d) Magicians				
11)	The snails that he eats voraciously is	are expensive. The underlined clause				
	a) a noun clause	b) a relative clause				
	c) an adverbial clause	d) a prepositional clause				
12)	'Ramesh asked me how I grow m	ny carrots'. The underlined clause is				
	a) an adverbial clause	b) an adjectival clause				
	c) a relative clause	d) a noun clause				
13)	The tag question for the sentence "I	No one is asleep" is				
	a) are they? b) isn't it?	c) aren't they? d) isn't he?				
14)	"You can pay the bill in cash or by o	heque". This sentence is a				
	a) simple sentence					
	b) complex sentence					
	c) compound sentence					
	d) none of the above					



2.	Answer <b>any seven</b> of the following in brief:  1) What is metamorphosis? How it is used in the story <i>Pyramus and Thisbe</i> ?  2) What is the source of the story <i>Pyramus and Thisbe</i> ?  3) What is the importance of the wall in the story <i>Pyramus and Thisbe</i> ?  4) What is the moral of the story <i>The Necklace</i> ?  5) What was the reaction of Mathilde after reading the invitation for the party?  6) Why was Tom in melancholic spirit on the Saturday morning?  7) What did Tom acquire at the end of the day?  8) What did Loisel do to replace the necklace?	14
3.	<ul> <li>A) Answer any two of the following:</li> <li>1) What is Phillis Wheatley's attitude to life on earth?</li> <li>2) What is the theme of the poem <i>In the Bazaars of Hyderabad</i>?</li> <li>3) What does the pursuit of virtue lead to?</li> </ul>	8
	<ul> <li>B) Answer any two of the following:</li> <li>1) When you do feel stressed, how do you manage it?</li> <li>2) You are an attendant in a multinational company in Mumbai and you have been recently married. You find it difficult to pay house rent and other bills in Mumbai. Besides your parents are old and medical treatment is needed. What will you do to solve the financial problem?</li> <li>3) Suppose that you have just been completed your B.Sc. and admitted to M.Sc. in JNU, Delhi. How will you adapt to the new surrounding there?</li> </ul>	6
4.	Write in detail the description of your favorite national leader. Remember to convey the character, thoughts and mood of him/her.  OR	14
	Imagine that you are going to college by bus which meets an accident in which three old men get injured. You take them to the hospital. Narrate in detail the accident and your experience in the hospital.	
5.	Read the following passage and write the summary of it:  The great advantage of early rising is the good start it gives us in our day's work. The early riser has done a large amount of hard work before other men have got out of bed. In the early morning the mind is fresh and there are few sounds or other distractions, so that work done at that time is generally well	14

done. In many cases the early riser also finds time to take some exercise in

fresh morning air and this exercise supplies him with a fund of energy that will last until the evening. By beginning so early, he knows that he has plenty of time to do thoroughly all the work he can be expected to do, and is not tempted to hurry over any part of it. All his work being finished in good time, he has a long interval of rest in the evening before the timely hour when he goes to bed. He gets to several hours before midnight, at the time when sleep is most refreshing and after a sound night's rest rises early next morning in good health and spirits for the labours of a new day.

It is very plain that such a life as this is far more conductive to health than that of the man who shortens his waking hours by rising late and so can afford in the course of the day little leisure for necessary rest. Anyone who lies in bed late must, if he wishes to do a full day's work, go on working to a correspondingly late hour and deny himself the hour or two of evening exercise that he ought to take for the benefit of his heath. But in spite of all his efforts, he will probably produce as good results as the early riser, because he misses the best working hours of the day.

It may be objected to this that some find the perfect quiet of midnight by far the best time for working. This is no doubt true in certain cases. Several great thinkers have found by experience that their intellect is clearest and they can write best, when they burn the midnight oil. But even in such cases the practice of working late at night cannot be commended. Few men, if any, can exert the full power of their intellect at the time when nature prescribes sleep, without ruining their health thereby; and of course the injury done to the health must in the long run have a bad effect on the quality of the work done.

#### **SLR-SB - 54**

Seat	
No.	

Set F

### B.Sc – III (Semester – VI) (Entrepreneurship) (CGPA) Examination, 2018 INTERNATIONAL BUSINESS

•	Date : Saturday, 30 a.m. to 1.00				Max. Marks	: 70
Instru	,	questions are <b>co</b> rks indicate to the	•	-		
1. Choos	se the most corre	ect alternative for t	he f	ollowing and rev	write the sentence :	14
1) _	are	the operations ob	ojec	tives of the Inte	ernational Business.	
	Sales expansi			Resource acq		
C)	Diversification		d)	All of these		
2) G	ATT came into	force on				
a	1947	b) 1949	c)	1959	d) 1956	
3) A	global company	y sometimes call	ed a	a	company.	
a	A joint stock c	ompany	b)	A globally inte	grated	
C)	A multidomes	tic company	d)	All of these		
4) T	he membership	of the 'ADB' is o	pen	to all countries	s in	
a)	) Asia		b)	South Asia		
C)	) Europe		d)	Africa		
5) Ti by		emand Theory' o	of In	ternational Bus	iness was formulated	
a)	J. S. Mill	b) D. Ricardo	c)	M. Porter	d) A. Smith	
6) _	are	also called as 'In	tegi	rated Global Er	nterprise'.	
a	Joint Ventures	3	b)	Foreign Institu	utions	
C)	Global Firms		d)	Multinational (	Corporations	
7) T	he member cou	ntries of the NAF	TA	includes U.S.A	., Canada and	
a	) U. K.		b)	Brazil		
C)	Argentina		d)	Mexico		

SLR-S	B – 54	-2-				
8)	is that rate at which	one	currency is	excha	inged for another.	
	a) Fixed Exchange Rate					
	b) Foreign Exchange Rate					
	c) Flexible Exchange Rate					
	d) Domestic Rate					
9)	Most favoured nation treatment is	s the	basic princ	ple of		
	a) GATT b) WTO	c)	IMF	d)	World Bank	
10)	FDI means					
	a) Flexibility Direct Investment					
	b) Foreign Direct Investment					
	c) Full Direct Investment					
	d) None					
11)	is merely a wa	y of	listing rec	eipts	and payments in	
	international transactions for a co	ountr	у.			
	a) Balance of Payment					
	b) Balance of Trade					
	c) Deficit in Balance of Payment					
	d) None					
12)	The highest authority of the WTC	) is				
	a) Dispute Settlement Body					
	b) General Council					
	c) Trade Policy Review Body					
	d) Ministerial Conference					
13)		moni	itor the imp	lemer	ntation of SAARC	
	programme.	_				
	a) Council of Ministers of SAARC					
	b) Standing Committee of SAAR	C				
	c) SAARC Secretariat	۸ D.C				
4.45	d) Programme Committee of SA					
14)					J.	
	a) Export	,	Internation	ai irad	ae	
	c) International Business	d)	Import			

2. Sc	olve 7 questions out of 10 questions :	14
1)	What is meant by International Business?	
2)	What is meant by MNC ?	
3)	Give the meaning of balance of payment.	
4)	Objectives of ADB.	
5)	What are the forms of FDI ?	
6)	What is meant by Joint Venture ?	
7)	Define the concept of E-Commerce.	
8)	Meaning of SAP retail model.	
9)	Give the meaning of EEC.	
10)	Franchising.	
3. A)	Attempt any 2 questions out of 3 questions :	10
	1) What are the features of International Business?	
	2) Give the theory of comparative cost advantage.	
	3) What are the components of balance of payments?	
B)	Solve : What are the objectives of GATT ?	4
4. At	tempt any 2 questions out of 3 questions :	14
1)	What is meant by Globalisation and its advantages?	
2)	What is meant by MNC and give its advantages and disadvantages?	
3)	What is meant by EU and give its objectives?	
5. At	tempt any 2 questions out of 3 questions :	14
1)	Define in detail India and WTO.	
2)	Define SAARC objectives and functions and organisation.	
3)	Modes of entering in International Business of Merger and Acquisitions.	



Seat	Set F	_ >
No.	Set F	_

## B.Sc. - III (Semester - VI) (Entrepreneurship) Examination, 2018

	(CGPA P ORGANISATIONA	•
•	and Date : Monday, 2-4-2018 : 10.30 a.m. to 1.00 p.m.	Max. Marks : 70
	N.B.: 1) All questions are 2) Figures to the <b>rig</b>	e <b>compulsory</b> . ght indicate full marks.
1. N	Multiple choice questions.	14
1	) is defined as an interdis phenomenon related to dynamics of a Science.	sciplinary behavioral science, studying n organization and their various Human
	<ul><li>a) Human psychology</li><li>c) Human relations</li></ul>	<ul><li>b) Organization behaviour</li><li>d) Organization dynamics</li></ul>
2	<ul><li>e) Every human being is in some respe</li><li>a) Unique-is unlike all others</li><li>c) Like all other people</li></ul>	
3	s) was a pioneering	theorist in the field of Cognitive
	Psychology. a) Edward Tolman c) Ivan Pavlov	<ul><li>b) B. F. Skinner</li><li>d) Douglas McGregor</li></ul>
4	<ul> <li>An individual's behavior is caused by a) Family help</li> <li>c) Society's response</li> </ul>	b) Attitudes d) All
5	<ul><li>a) What corrects problems of conflict?</li><li>a) MDs attitude</li><li>c) Built in rules of organization</li></ul>	<ul><li>b) People's attitude</li><li>d) Courts of law</li></ul>
6	<ul> <li>One single factor that mainly contribute</li> <li>a) Money</li> <li>c) Trust</li> </ul>	•
7	behaviors.	ocesses of choice among different
	a) Equity Theory	b) Expectancy Theory
	c) Goal Attain Theory	d) Goal Setting Theory

2.

8)	The least used com	nmunication cha	nnel in a	an organizat	ion is usually	
	a) Upward	b) Downward	c) Di	agonal	d) Horizontal	
9)	mea	ns the mental ac	ction or p	process of a	cquiring knowledge	
	and understanding		-			
	a) Learning		,	•	,	
10)	goal of the organiza	•	sion in c	order to acco	omplishment stated	
	a) Formal Group		,	formal Grou	•	
	c) Task Group		,	terest Group		
11)	=				ts of the expectancy	
	that a particular even		•	-		
10\	a) Eventual	,	•	•	d) Allitude	
12)					d) Attitudo	
10\	a) Behavior				d) Attitude	
13)	Every individual is a) Intellectual				d) Systematic	
14)	•	stimuli or data s	_		eting, checking and ningful and coherent	
	a) Attitude		b) Th	ninking		
	c) Perception		d) Co	ommunicatio	on	
So	lve <b>any seven</b> of th	e following.				14
1)	Job satisfaction.					
2)	Nature of OB.					
3)	Social Learning The	eory.				
4)	Nature of motivatio	n.				
5)	Define personality	and perception.				
6)	Electronic market.					
7)	Electronic commerc	ce with www/inte	ernet.			
8)	Group level stresse	es.				
9)	Emotion.					

	-3-	SLR-SB - 55
3.	<ul> <li>A) Short note (any 2).</li> <li>1) Internet monetary payment and security requirements.</li> <li>2) Types of group</li> <li>3) Goal setting theory.</li> </ul>	10
	B) Group structure.	4
4.	Attempt <b>any two</b> of the following.  1) Types of political activity.  2) Determinants of group behavior.  3) Factors in flouncing perception.	14
5.	Attempt <b>any two</b> of the following.  1) Theories of Motivation.  2) Payment and purchase order process.  3) What is O.B. ? Explain nature and scope of O.B.	14

**SLR-SB - 56** 

	T	7	
Seat		Set	P
No.			

## B.Sc. – III (Semester – VI) (Entrepreneurship) (CGPA) Examination, 2018 TECHNIQUES IN INDUSTRIAL CHEMISTRY

•	d Date : Tuesday 10.30 a.m. to 1.0			Max. Marks : 70	)
1	2)	<del>-</del>	•	s <b>wherever</b> necessary.	
	lect the most corr sentence.	rect alternative fro	om among those given	n below and rewrite	1
i)	<ul><li>a) affinity for the</li><li>b) affinity for the</li></ul>	e mobile phase e solvent phase e stationary phas	r is thee		
ii)	In paper chroma	itography, paper a	acts as	phase.	
	a) solid	b) liquid	c) stationary	d) support	
iii)	A biocatalyst is _		c) carbohydrates		
	a) protein	b) lipid	c) carbohydrates	d) none of these	
iv)	In electroplating a) Electrolysis c) Osmosis		_ plays an important ro b) Electro-osmosis d) None of these	ole.	
v)	If cathode efficie metal content.	ency > anode effic	iency, the bath becom	es in	
	a) rich	b) poor	c) both a) and b)	d) none of these	
vi)	surface of Al an		which gives the coating	g of oxide film on the	
	a) Electrolysis		b) Electrophoresis		
	c) Anodizing		d) All of these		



vii)	It is better to	waste than	to treat or clean	up waste after it is formed.		
	a) Burn	b) Burry	c) Present	d) Dump in sea		
viii)			is used as mobile phase.			
	a) Helium		b) Hydrogen cy			
	c) Petroleum eth		d) Ethyl alcoho			
ix)	Water is hard due	to presence of _		_ions.		
	<ul> <li>a) Al<sup>+3</sup> and Si<sup>+2</sup></li> <li>c) Ca<sup>+</sup> and Mg<sup>+2</sup></li> </ul>	<u>)</u>	b) Na <sup>+</sup> and K <sup>+</sup> d) None of thes	20		
\	_		,	5 <b>C</b>		
X)	Halon-13-ol is als a) Bromotrifluron			omethane		
	c) Bromotetraflui		,			
xi)	•		-	sence of		
,	a) Crystalline na		b) Acid centers			
	c) Amorphous na	ature	d) None of thes	se		
xii)	Current density e	=				
	a) sq.ft.	b) A/dm <sup>2</sup>	c) sq.cm	d) None of these		
xiii)						
	a) Oils	b) Wood	c) Cloths	d) Paper		
xiv)			of the mixture car	n be done by		
	chromatography.		a) Papar	d) None of those		
	a) Gas	b) Column	с) Рареі	d) None of these		
2. An	swer <b>any seven</b> o	f the following:			14	
i)	Give the Faraday	s law of electro	lysis.			
ii)	What is Green ch	nemistry?				
iii)	Name the differe	nt types of fires.				
iv)	What is Chromate	ography?				
v)	Give the advanta	ges of gas chron	natography.			
vi)	What is cathode	and anode efficie	ency?			
vii)	What is meant by	/ Rf value ?				
viii)	Write the two app	olications of colur	mn chromatogra	phy.		
ix)	Define zeolite wit	h example.				
	·					

3.	A) Attempt any two of the following:	10
	i) Write a short note on cleaning of articles.	
	ii) Discuss the application of nickel plating.	
	iii) Explain Friedel craft alkylation reaction.	
	B) Discuss classification of Chromatography.	4
4.	Attempt any two of the following:	14
	i) Describe all the details involved in the electroplating of chromium	
	ii) What is paper chromatography? Discuss in detail experimental procedure of paper chromatography.	
	iii) Give the twelve principles of green chemistry.	
5.	Attempt any two of the following:	14
	i) Give base estimation of water and water base extinguishers.	
	ii) What do you understand by anodizing?	
	<ul><li>iii) What are the biocatalysts? Write the advantages and disadvantages of biocatalyst.</li></ul>	

**SLR-SB - 57** 

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Seat	Set	D
No.	Set	

	•	, · · -	- / \	) Examination, 2018 ANT TISSUE CULTU	
-	d Date : Wednesda 10.30 a.m. to 1.00	•		Max. Marks	: 70
	2) 1	<b>All</b> questions are <b>c</b> <b>Draw</b> a neat labele Figure to the <b>righ</b> t	ed diagram <b>where</b>	•	
	write the following ow :	sentences by cho	osing correct alte	rnatives from given	14
i)	is an e	excised piece of lea	f or stem tissue use	ed in micropropagation.	
	a) Microshoot	b) Medium	c) Explants	d) Scion	
ii)	Plant tissue cultur	e technique is a re	defined method o	f	
	a) Hybridization		b) Vegetative	propagation	
	c) Selection		d) None of the	ese	
iii)	Restriction endor			neering, because it cut	
	a) Two fold symn	netry	b) SS DNA		
	c) DS DNA		d) None of the	ese	
iv)	is u	ised surface clean	ing agent of seed	or plant material.	
	a) NaCl	b) HgCl <sub>2</sub>	c) KCl	d) HCl	
v)	Somatic hybridiza	tion is achieved th	rough		
	a) Conjugation		b) Grafting		
	c) Protoplast fusi	on	d) Isolated ov	ary culture	
vi)	i	s called as the fatl	ner of plant tissue	culture.	
	a) P. R. White		b) C. D. Larue	е	
	c) J. P. Nitsch		d) Gotlib Hyb	erlandt	
vii)	Totipotency is the	genetic potential	of a plant cell to pi	roduce	
	a) Only leaf	b) Only fruit	c) Only shoot	d) Entire plant	



viii)	The first hormone at indus	trial level produc	ed by using ba	cteria is	
	a) Insulin	b)	thyroxin		
	c) testosterone	d)	none of these		
ix)	The most widely used chemical for protoplast fusion, as fusogens is				
	a) Mannitol	b)	Sorbitol		
	c) Polyethylene Glycol	d)	Lysosomes		
x)	First step in genetic engine	eering is			
	a) Isolation of RNA	b)	Isolation of pr	otein	
	c) Isolation of genetic ma	terial d)	Purification of	protein	
xi)	The first transgenic crop is	S			
	a) Maize b) To	obacco c)	Jowar	d) Wheat	
xii)	A medium which is chemic is called as	•	of specifically o	defined components	
	a) Synthetic media		b) Seminatural media		
	c) Natural media		d) None of these		
xiii)	The technique of obtaining	g identical copie	es of the desire	d gene is called as	
	a) Gene therapy		Gene sequen	ce	
	c) Gene cloning		rDNA technol	ogy	
xiv)	vector is mainly used in crop improvement.				
	a) Mitochondrion	b)	Cosmid		
	c) Plasmids		Agrobacteriur	n	
2. Ans	swer <b>any seven</b> of the follo	owing:			14
i)	Define Bacteriophage.				
ii)	Define Genetic Engineering	ıg.			
iii)	Transgenic plants.				
iv)	Applications of PCR.				
v)	What is callus?				
vi)	Restriction Endonuclease	S.			
vii)	Ligases.				
viii)	cDNA Library.				
-	Flavor savor tomato.			Se	at P

3.	<ul> <li>A) Answer any two of the following:</li> <li>i) Describe in brief Nutritional requirements of the explants.</li> <li>ii) Discuss in detail PCR.</li> <li>iii) Describe in detail History and Ethical issues of genetic engineering.</li> </ul>	10
	B) Give a detailed account on PGR.	4
4.	Answer any two of the following:  i) Describe in detail Western blotting.  ii) Explain in detail Enzymes involved in genetic engineering.  iii) Explain in detail Suspension Culture.	14
5.	<ul> <li>Answer any two of the following:</li> <li>i) Write in detail Micro propagation and its applications.</li> <li>ii) Discuss in detail PAGE.</li> <li>iii) Describe in detail applications of Plant Tissue Culture with example.</li> </ul>	14