Seat	Sat	D
No.	Set	

				ami	se in Cosmetic Technology) nation: March/April - 2025 CT01208)	
-			ursday, 22-May-2025 I To 10:30 PM		Max. Marks:	30
Instr	uctic	2) All question are compulso) Draw neat labelled diagra- necessary.) Figures to the right indicat	ms a	and give equations whenever I marks.	
Q.1	Cho 1)	appa a)	the correct alternatives is small membranous vestratus. Lysosome Nucleus	b)	Pinched off from Golgi Ribosome Peroxisome	06
	2)	b) c)	_ cell organelle contains the Ribosome Nucleus Golgi body Endoplasmic reticulum	e bo	dy's genetic material.	
	3)	a)	d group AB has Antigen A Antigen A and B	b) d)	Antigen B Neither A nor B antigen	
	4)	a)	d group O makes Anti-B Neither Anti-A nor B	b) d)	Anti-A Both anti -A nor anti-B	
	5)	a)	pigment Melanin is present Leukocytes Melanocytes	in b) d)	keratinocytes Lymphocytes	
	6)	,		hair b) d)	follicles and become active at Apocrine Pituitary	
Q.2	Ans a)		the following. (Any Three) e a note on ribosome.			06

- b) Give types of epithelial tissue.
 c) Give types of blood cells.
 d) Write the functions of different tissues

	e)	Enlist different blood clotting factors.	
Q.3	An a) b) c)	swer the following (Any Two) Write a note on ABO system. Explain in detail sweat gland. Explain in detail sebaceous glans.	06
Q.4	An a) b) c)	swer the following. (Any Two) Draw neat labelled diagram of Nail. Draw neat labelled diagram of teeth. Draw neat labelled diagram of Hair.	06
Q.5	An: a)	swer the following. (Any One) Explain in detail types, components, functions of connective tissue.	06

b) Give difference between baby skin and adult skin.

Seat No.	Set	Р

Five Year Integrated (M. Tech. Course in Cosmetic Technology)

			•	kam	ination: March/April - 2025 y (CT01207)
•			aturday, 24-May-2025 M To 10:30 AM		Max. Marks: 30
Instr	uctic	2	1) All questions are compuls 2) Draw neat labelled diagra 3) Figures to the right indica	ams v	wherever necessary.
Q.1	Cho 1)	In th with a)	the correct alternatives. ne colorimeter there is study matter. U.V X-ray		ne interaction of light Visible I.R
	2)	resis a)	electrodes used in the pH r stance. very low very high	b)	surement have internal moderate none of these
	3)	ene	rgy into energy. mechanical		device that convert chemical electrostatic heat
	4)	a) b) c)	field pH scale is imposed forestry food science All of the above	ortant	t measurement.
	5)	electa) b) c)	etrode in pH measurement Calomel Mercury		hat is used as the reference e electrode.
	6)	a)	orimeters are used in the re 200nm-600nm 400nm-1200nm	b)	n 400nm-800nm 100nrn- 800nm

Q.2	Ans a) b) c) d) e)	bwer the following. (Any Three) Define EMF of Cell. Explain the basic principle of electroplating. Define Faradays law. Define Standard electrode potential. Define the term Electrolysis.	06
Q.3	Ans a) b) c)	Explain the important component of pH meter. Explain in detail Applications of Colorimeter. Write a note on Redox reaction	06
Q.4	Ans a) b) c)	wer the following. (Any Two) Write a note on pH meter. Explain in detail Daniel cell. Write a note on principles of Colorimeter.	06
Q.5	Ans a) b)	Swer the following. (Any One) Define Glass electrode and explain their advantages and disadvantages in detail. Write a note on buffer solution in detail.	06

Seat	Sat	D
No.	Set	

Fi۱	∕e Ye	ar Ir	ntegrated M. Tech. Sem – March/Apı Cosmetic Te Environmental S	ril - : echr	2025 nology	Examination	1
•			onday, 19-May-2025 M To 10:30 AM			Max. Marks:	30
Instr	uctio		1) All questions are compulso 2) Figures to the right indicate	•	marks.		
Q.1	Choo 1)		correct alternative. gas primarily responsible for Oxygen Carbon dioxide	glob b) d)	oal warming is Nitrogen Hydrogen		06
	2)	a) c)	is a non-renewable resour Solar energy Wind energy	ce. b) d)	Coal Biomass		
	3)	a) c)	is considered a renewable Solar Energy Coal	reso b) d)	ource. Natural Gas Petroleum		
	4)	extina)	is the term used to describ nction due to human activity. Overexploitation Natural selection		Habitat destruction	species	
	5)	The a) b) c) d)	primary cause of air pollution Industrial activity and vehicu Agricultural practices Natural forest fires Ocean currents				
	6)	Mos a) b) c) d)	st observed consequence of c Reduced agricultural produc Decreased rainfall Increased skin cancer rates Lower global temperatures			·	
Q.2	a)	Desc	the following. (Any three) cribe India as a mega-biodive	-			06

- Describe Multidisciplinary nature of environmental studies.
- Differentiate between floods and draughts. c)
- Describe Environment Protection Act in brief. d)
- Give brief idea of Silent valley movement.

Q.3	Ans a) b) c)	wer the following. (Any two) Importance of environmental studies Forest Ecosystem Air Pollution	06
Q.4	Ans a) b) c)	wer the following. (Any two) Deforestation: Causes and Impacts Biogeographic zones of India Conservation of Biodiversity	06
Q.5	Ans a) b)	wer the following. (Any one) Write in detail on the importance of Renewable and Non-renewable energy resources. What is Disaster? Describe disaster management with respect to flood and earthquakes.	06

Cool			
Seat No.		Set	P
Five	e Yea	ar Integrated (M. Tech. Course in Cosmetic Technology) (Sem - (New) (CBCS) Examination: March/April - 2025 English/ English for communication (ENG-201)	II)
•		ate: Saturday, 17-May-2025 Max. Marks: 00 AM To 10:30 AM	30
Instr	uctio	ons: 1) All questions are compulsory. 2) Figures to the right indicate full marks.	
Q.1	Cho	Oose the correct alternative from the given options. Which of the following is NOT a stage of the listening process? a) Receiving b) Understanding c) Judging d) Responding	06
	2)	Which of the following is a listening focused on understanding and remembering information? a) Empathetic listening b) Critical listening c) Appreciative listening d) Informational listening	
	3)	Active listening involves all of the following EXPECT a) Giving feedback b) Avoiding distractions c) Daydreaming while nodding d) Asking clarifying questions	
	4)	Which part of a newspaper report usually summarizes the main point? a) The body b) The byline c) The conclusion d) The headline	
	5)	What does "CC" stand for in an email? a) Confidential Copy b) Carbon Copy c) Common Copy d) Copy Chain	
	6)	Which of the following helps to impro e SEO in a blog post? a) Using complex jargon b) Writing in long paragraphs c) Including relevant d) Using slang keywords	
Q.2	Ans a) b) c) d)	wer any three out of the following. What are the main stages of the listening process? What is the purpose of critical listening? Write a note on the benefits of blog writing. What are the key features of a newspaper report?	06

	e) f)	Comment on the importance of email writing. What is the main difference between "CC" and "BCC" in an email?	
Q.3	Ans	wer any one of the following.	06
	a)	Comment on the importance of the Listening Skills.	
		OR	
	b)	Explain the different types of listening. How do they serve different purposes in communication?	
Q.4	Ans	swer any one of the following.	12
	a)	You are M. Tech. student at Shivaji University. Write a letter to your	
		Vice-Chancellor, requesting permission to organize a quiz	
		competition in the University auditorium.	
		OR	

b) What are the benefits of blog writing?

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Seat	Cot	D
No.	Set	

Five Year Integrated (M. Tech.) (Sem-II) (New) (NEP CBCS) Examination: March/April - 2025 Cosmetic Technology – II (CT01201)

Day & Date: Friday, 23-May-2025 Max. Marks: 30

Time: 11:00 AM To 12:30 PM

Instructions: 1) All questions are compulsory.

- 2) Draw neat labelled diagrams wherever necessary.
- 3) Figures to the right indicate full marks.

Q.1 Choose the correct alternatives.

- 1) A hydrophilic ointment base is best suited for which type of drug delivery?
 - a) Lipophilic drugs
 - b) Occlusive therapy
 - c) Water-soluble drug release
 - d) Emollient-only effect
- 2) Which type of powder must be sterile before application?
 - a) Dusting powder for broken skin
 - b) Face powder
 - c) Talcum powder
 - d) Compact powder
- 3) What is the role of emulsifying agents in emulsions?
 - a) Increase viscosity
 - b) Decrease surface tension between phases
 - c) Improve taste
 - d) Enhance color
- 4) Which of the following factors enhances stability of a suspension?
 - a) Larger particle size
 - b) Lower viscosity
 - c) Proper selection of suspending agent
 - d) High sedimentation rate
- An ideal preservative should be _____
 - a) Effective only against bacteria
 - b) Inactive at the formulation's pH
 - c) Non-toxic and non-irritant
 - d) Highly volatile

	6)	is an entity in which equivalentseparated by a small distance.a) Bipolarbipole	•	sitive and negative charges are Dielectric Energy		
Q.2	a) b) c) d)	Write ideal Characteristics of Foundation Define Ointment. Classify then Differentiate between Floccula Explain in short Dipole moment Explain in brief Compact power	reser n. ted ar t,		06	
Q.3	a) b)					
Q.4	a) b)	nswer the following. (Any Two) Explain in brief Refractive index. Write a note on preparation methods of Emulsions. Define Cosmetic powder and write a note on Dusting powder.				
Q.5	Ans a) b)	swer the following. (Any On Define Suspension. Write a no Give a brief note on Dielectric	te on	•	06	

Seat No.							Set	P
Five `	Year		ew) (NEF		minat	ion: l	metic Technology) (Sem March/April-2025 T01202)	- II)
			nday 26-05 To 12:30 I	5-2025		`	, Max. Marks	s: 30
Instruc	ction	2)	Draw nea	ons are comp at labelled diag right indicates	grams v		ver necessary.	
Q.1 C		Adul	teration w	alternative. ith a cheaper	but sim	nilar-Ic	ooking substance is known	06
		as _ a) c)	Accidenta	al adulteration onal adulterat		b) d)		
2)	Majo a) c)		ll constituent o carbonates n silicate	of kaolii	n is b) d)	Magnesium hydroxide Sodium bicarbonate	
3)		beater's s Violet visi Tannins		ed to co	nfirm b) d)	the presence of Alkaloids Saponins	
4)	Colo a) c)	phony is p Resin aci Flavonoic		osed o	b) d)	Terpenes Alkaloids	
5)	Fulle a) c)		s rich in um silicate hloride	_	b) d)	Calcium sulphate Potassium nitrate	
6)	invol a) b) c)	ves exam The chem The shap The mole	ining nical reaction v	with spore	ecific e drug dulter	y's cells and fibers ant	en

Q.2	Ansv a) b) c) d) e)	wer the Following. (Any Three) Explain the uses of resins? Explain chemical constituents of talc. Define Tannins. Define adulterations in natural ingredients. Write down the biological source and geographical source of Pale catechu.	06
Q.3	Ans	wer the following. (Any two)	06
	a)	Explain the chemical test for tannins.	
	b)	Write down the biological source, chemical constituent and uses of Bentonite.	
	c)	Explain in detail about Benzoin.	
Q.4	Ans	wer the following. (Any two)	06
	a)	Explain different methods of adulterations.	
	b)	Explain in detail about biological source, chemical constituents and uses of Calamine.	
	c)	Explain in detail about Storax.	
Q.5	Ans	wer the following. (Any one)	06
	a)	Explain in detail about physical evaluation method and chemical evaluation method for detection of adulteration.	
	b)	Write down the biological source, geographical source, chemical constituent and uses of Baheda.	

Seat	S ₀₄	D
No.	Set	

			` `	Exan	e in Cosmetic Technology) nination: March/April - 2025 II (CT01203)	
-			ednesday, 28-May-2025 // To 12:30 PM		Max. Marks:	30
Instr	uctio		All questions are compulsoFigures to the right indicate	-	marks.	
Q.1	Mult 1)	An a	choice questions. aqueous solution of the base blue litmus red red litmus blue		no change in red litmus	06
	2)		tic acid and Water	on-ad b) d)	queous titrations are prepared in MDC Acetone	
	3)	calle a)		b)		
	4)	a) c)	used as a catalyst in limit Dil. Hydrochloric acid Nitric Acid		for sulphate. NaOH Ammonia	
	5)		etrons are called as		and can accept the loan pair of Lewis acid Lowry Bronsted acid	
	6)	Star a) c)	rch is a type of Naturally derived thickener Lipid thickener	b) d)	Mineral thickener lonic thickener	
Q.2	a) b) c) d)	Expl Write Wha Expl	the following. (Any Three) ain the limit test of Chloride in a note on acid-base indicate it is the effect of water in Nonain the applications of acid-bain role of thickener in emuls	ors. -aqu ase t		06

Q.3	Answer the following. (Any Two)				
	a)	What is limit test? Explain limit test for Lead.			
	b)	Mention the types of thickeners. Explain any two of them with examples.			
	c)	Define Non-aqueous Titrations and give their advantages and disadvantages.			
Q.4	An	swer the following. (Any Two)	06		
	a)	State Newton's law of viscosity and explain types of Fluids with suitable examples.			

Explain the Lewis acid-base theory with examples and limitations.

What are cosmetic thickeners? Explain why viscosity and rheology

Q.5 Answer the following. (Any One)

are important in thickeners.

b)

c)

- a) Explain various sources of impurities in the final product.
- **b)** Define Buffer solution, explain Buffer action in detail.

Seat	Sat	D
No.	Set	

Five Year Integrated (M. Tech.) (Sem-IV) (New) (CBCS) Examination:

			магсn/Ap Cosmetic Techn			
			ursday, 22-May-2025 To 06:00 PM		Max. Marks: 80)
Inst	ructior	2)	Q.Nos.1 and 2 are compu Attempt any three questio Figure to right indicate full	ns from	Q.No.3 to Q.No.7.	
Q.1	-		ple choice questions. (MC	-	10)
	1)	a)	tifrices are the powders use Dental care Wound healing	b)	 Antiseptic None of above	
	2)	a)	sner's ratio is performed to Particle size Flow property	b)	· · · · · · · · · · · · · · · · · · ·	
	3)	a)	orption bases include, Lanolin Cold cream	 b) d)	Anhydrous Ianolin All of these	
	4)	a)	phase which is dispersed i Emulsion Dispersed	s knowr b) d)	n as phase of emulsion. Dispersion medium None of above	
	5)	a)	ch of the following is route of Oral Subcutaneous	b)		
	6)	forn a)	at is primary concern assoc nulation? Colour alteration hypersensitivity reaction	b)	Drug degradation	
	7)	a)	of the following is NOT am More stable than liquids Good chemical stability	b)	Faster dissolution	
	8)	stea a)	are O/W emulsion conta ric acid. Cold creams Foundation cream	b)	rge percentage of water and Vanishing cream Antiseptic cream	

	9)		are compounds the luce the interpretation		ound solid particles and	
			Emulsifiers	b) d)	Suspending agents Lubricants	
	10)	a) b)	To stabilize the prod To enhance activity	on from micro luct		
	B)	i) ii) iii) iv) v)	Tooth powder is an extended the second transfer of the second transf	xample of dus should be tas s compared to y affect the st rate of absor	teless. o semi solids.	06
Q.2	a) \(\bar{b} \)c) \(\bar{b} \)	write a note on Dentifrices along with its formula and brand name. Define suspension and classify in detail along with examples. Write a note on stability of suspension. Define preservatives and give its classification along with examples.				
Q.3	a) [Defin oulk p	the following: ne, classify, write advar powders. an account of Jellies.	ntages, disad [,]	vantages and applications of	16
Q.4	a)	Write	the following e a note on sticks and e detailed note on past	U .	•	16
Q.5	a)	Defirand	write need of emulsific	cation.	ages and disadvantages of it acid as preservatives.	16
Q.6	a) b)	Define of itage Expl	and classify along with	n examples.	vantages and disadvantages sion and write applications of	16
Q.7	Ansv a)	Exp qua	the following plain in detail formulati alities of suspension.	•	its of suspension and ideal	16

Seat No.		Set	P
Five	Yea	Integrated (M. Tech Course in Cosmetic Technology) (Sem - I' (New) (CBCS): Examination March/April - 2025 Instrumental methods of Analysis - II (CT402)	V)
-		e: Saturday, 24-May-2025 Max. Marks: 80 PM To 06:00 PM	80
Instru	uctio	1) All questions are compulsory.2) Figures to the right indicate full marks.	
Q.1	,	Choose correct alternative. In vibrational spectra, the transition from V=0 to V=1 gives a very intense ine known as a) overtone band b) fundamental band c) dar band d) first overtone band	10 e
	2)	The fingerprint region of IR spectrum is about a) 1350-667 cm ⁻¹ b) 4000-667 cm ⁻¹ c) 667-50 cm ⁻¹ d) 4000-1350 cm ⁻¹	
	3)	The mobile phase used in thin layer chromatography is a) solid b) gas c) liquid d) both a and c	
	4)	Fuel used in AAS is a) N ₂ O b) O ₂ c) Acetylene d) Air	
	5)	For anharmonic oscillator, selection rule is a) $\Delta J = \pm 1$ b) $\Delta V = \pm 1$ c) $\Delta E = \pm 1$ d) $\Delta V = \pm 1, \pm 2, \pm 3, \dots$	
	6)	The most accurate chromatographic technique among the following s a) paper chromatography b) thin layer chromatography c) HPLC d) both b and c	
	7)	Among the following, which is a IR active molecule? a) HC1 b) N ₂ c) O ₂ d) Cl ₂	
	8)	When bond between two atoms in a molecule is stiff and does not chang n length, then the molecule is known as model. a) harmonic oscillator b) rigid rotor c) stick d) rod	је

	9)	For CO ₂ , the number of fundamental modes of vibrations are a) 3 b) 4 c) 5 d) 6	
	10)	Cuvettes used in spectrophotometer are generally made up of a) quartz b) glass c) alumina d) plastic	·
	,	Write True or False The radiation source used in spectrophotometer should provide continuous radiations.	06
	2)	The choice of mobile phase depends upon the nature of substances to be separated.	
		IR radiations cause the rotational changes in the molecules.	
	4) 5)	In atomization unit of AAS, oven is used to brought a sample to high temperature by putting it in a high current or high potential. When a molecule undergoes rotational changes, there is no change	
	6)	in the bond length. The ratio of distance moved by solute to the distance moved by	
	O)	solvent front is known as partition coefficient.	
Q.2		wer the following.	16
	-	Explain the principle of IR spectroscopy.	
	b)	Define the terms: 1) Electromagnetic radiations 2) Electromagnetic spectrum	
	c)	Enlist various fundamental components and their types of spectrophotometers.	
	d)	Discuss the classification of chromatography.	
Q.3		wer the following.	16
	a) b)	Explain in brief, electromagnetic spectrum. Draw a block diagram of atomic absorption spectrophotometer. Explain radiation source used in it.	
Q.4	Ans	wer the following.	16
	•	Explain various factors affecting on values of vibrational frequency. Explain in brief interaction of electromagnetic radiation with matter.	
Q.5		wer the following.	16
	a)	Explain simple harmonic oscillator model for vibrational spectra of diatomic molecule.	
	b)	Discuss thin layer chromatography in detail.	
Q.6		wer the following.	
		Explain in brief Paper chromatography. Write a brief note on burners used in AAS.	
	b)	write a brief flote off burriers used in AAS.	

Q.7 Answer the following.

- 16
- a) Enlist various fundamental components of spectrophotometer. Explain photovoltaic detector in detail.
- **b)** Explain application of Hooke's law in IR spectroscopy.

Seat	Sat	D
No.	Set	

Five Year Integrated (M. Tech Course in Cosmetic Technology) (Semester - IV) (New) (CBCS) Examination: March/April - 2025 Unit Operations - II (CT403)

	•		Unit Operation	ons - II (C	CT403)	
-			Tuesday, 27-May-2025 PM To 06:00 PM			Max. Marks: 80
Insti	ructi	ons	2) Attempt any three questions: 1) Q. Nos. 1 and 2 are com 2) Attempt any three questions: 3) Figures to the right indicates:	ons from		7.
Q.1	A)		noose correct alternative. Perfectly black body was ob a) Newton c) Ferry	tained by b) d)	 Fourier None	10
		2)	In which type of mixer, the tr a) Barrel c) Ribbon	rough is s b) d)		ıder
		3)	Joule is unit of a) Heat c) Humidity	b) d)	Pressure None	
		4)	In the drying process, Final (a) Solid c) Solution	product is b) d)	in the form of Slurry None	·
		5)	What is the source of heat in a) Water bath c) Oil bath		the dryer? Hot air Steam	
		6)	Which of the following is also a) Colloid mill c) Double cone blender	o called V b) d)	cone Blender? Ribbon blender Twin shell blende	r
		7)	For heat insulation is a) Aluminum c) Copper	used. b) d)	Glass wool None	
		8)	Fourier law is also known as a) Conduction law c) Thermodynamic law	b) d)	Conviction law Radiation law	

		9)	Larg a) c)	ge amount of heat is trans Radiation Conduction	ferred i b) d)	n Conviction None	
	•	10)	Wh a) c)	ich one of the following dry Freeze dryer Tray dryer	/ers is I b) d)	known as Iyophiliser? Spray dryer None	
	B)	Wr 1) 2) 3) 4) 5) 6)	Fre Co Dry Co Air	rue or false. eeze drying involves lyophinduction involves molecularing means evaporation. Induction takes place through the conditioning involves humat flows from low to high.	ar move igh soli	ement. d.	06
Q.2	Ans a) b) c) d)	Dis Wr Wr	ite a ite a	e following. uish between solid mixing note on Conviction. note on a twin shell blend e merits and demerits of ri	er.	· ·	16
Q.3	Ans a) b)	Wh app	nat is olica	e following. Sheat? Enlist different heation of heat transfer. In the application of drying.	t transf	er mechanism. Give	10 06
Q.4	Ans a) b)	Wr	ite a	e following. note on construction, prin note on direct contact typ	-	nd working of a spray dryer. at exchanger.	10 06
Q.5	Ans a) b)	Wr	nat is	e following. s mixing? Give the applicate at labeled diagram explain			10 06
Q.6	Ans a) b)	Wh	nat is	e following. B Drying? Give classification ote on factors affecting mi		along with application.	10 06
Q.7	Ans a) b)	Wr	ite th	e following. ne construction, principle a onstruction, principle and v		_	10 06

Seat No.								Set	P
Five `	Year I		•	BCS) Exa	aminati	on:	Cosmetic Technolog March/April- 2025 (CT404)	gy) (Sen	า-IV)
			rsday, 29 To 06:00	9-May-202 PM	5		M	lax. Mark	s: 80
Instru	ctions	2)	Attempt	and 2 are o any three to the right	question	ns fro	om Q. No. 3 to Q. No. 3 marks.	7	
Q.1				ternative.					10
	•			nemical na			A 1		
		a) C)	Benzoic Biotin	acid		b) d)	Ascorbic acid None of these		
	2) V	it - B	helps t	o protect c	ells aga	inst	stress.		
			Oxidativ			b)			
	C	c)	Both a 8	ı b		d)	None of these		
;	3) P			, glistening					
			Dipeptid			,	Translucent		
	C	c)	ivon-i ra	nslucent		a)	None of these		
•	-	. –		-	equires		tment with humectant f	or	
		a) •\	Moisture)		b) d)	Oily None of these		
	C	c)	Dry			u)	None of these		
;	5) _	- \		is importa					
		a) C)	Vit - A Vit – E			b) d)	Vit – K None of the above		
	C	')				,			
(6) _			annot be di	sintegra	ted	into smaller molecules	through	
	-	yaro a)	lysis. Non-Sar	onifiable		b)	Saponifiable		
		2) 2)	Both a 8			d)	None of these		
	7) C	ultur	al pearls	are usual	v called	as	pearls.		
	•	a)	Natural		-	b)	Synthetic		
	C	c)	Both a 8	, b		ď)	None of these		
	8) _		Wax is	the most ir	nportant	t plai	nt wax.		
	-	a)	Bees wa		•	b)	Animal wax		
	C	c)	Carnaub	a wax		d)	None of these		

	9)			-		kin produces too much oil.	
		,	Contact dermatiti Seborrheic derma		b) d)	Atopic dermatitis Albumin	
	10)	a)	_ fatty acids are th Essential	ose which	car b)	nnot be synthesized by human Non - essential	body.
		c)	Both a & b		d)	None of these	
	B)	Wri	te True or False.				06
		a) b)	Vit-C is water sol The best known a			2000Way	
		c)	Contact dermatiti				
		d)		can be di		egrated into smaller molecules	
		e)	Vit-E is important		•		
		f)	Humectants are I	nygroscop	ic in	nature.	
Q.2	Ans	swer t	he following.				16
	a)		e humectants & e	-			
	b) c)		e pearl & explain to a note on produc				
	d)		•			pluble and water soluble	
	,		in with examples.	•			
Q.3	Δng	swer t	he following.				16
۵.0				hange res	sin &	explain their cosmetic uses in	_
	b)	Expla	ain in detail classifi	ication & p	rope	erties of waxes.	
Q.4	Ans	swer t	he following.				16
				in in detail	l the	types of risk factor &	
	1. \		ment for dry skin ir			-1-9	
	b)	-	ain the following hu Glycerol ii	umectants) PEG	ın a	etall.	
		'/	Olycerol II	, , , ,			
Q.5	Ans	wer t	he following.				16
	a)	•	ain in detail fatty a				
	b)	Defin	e lipids, structure	of lipids &	exp	lain in detail classification of lip	oids.
Q.6	Ans	wer t	he following.				16
	a)		•			essential vitamins w.r.t.	
	b)		nical name, functio				
	b)	Exhig	ain in detail viscosi	ity modille	١.		
Q.7	Ans	swer t	he following				16
	a)		a note on metabo		vit A	& vit K.	
	b)	Discu	uss in detail Lanoli	n.			

Seat No.		Set	Р
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Five Year Integrated (M. Tech. Course in Cosmetic Technology) (Sem - IV) (New) (CBCS) Examination: March/April - 2025 Cosmetics Legislations - II (CT410)

		(Sem	Cosmetics Legisla		s - II (CT410)	
-			onday, 02-June-2025 I To 06:00 PM		Max. M	larks: 80
Instr	uctio) Q.No.1 and 2 are compul) Attempt any three questic	-	om Q. No. 3 to Q. No. 7	
Q.1	Cho 1)		correct alternative. (MCQ) s reconstituted at every 1 year 4 years		2 years 5 years	10
	2)	Whe a) c)	n did The Factories Act, co 01 April 1966 01 May 1960		01 March 1967	
	3)	a)	•	ropes	•	
	4)	a) b)	ion 10 of the Factories act, Work on or near machine Artificial humidification. Certifying surgeons Lifting machines, chains,	ry in	motion,	
	5)	The (a) c)	constraints of promotion ma Competitor's advertising Budget		clude Resistance to change All of the given options	
	6)		t is the minimum number of or the Shops and Establishr 10 30			
	7)		t is the maximum number oweek? 40 hours 48 hours	b) b) d)	irs that an employee can wo 44 hours 52 hours	rk

	8)	The I a) c)	PCI constitute of Nominated members ex-officio members	b) d)	Elected members all of above	
	9)	a)	Ex-officio members of PCI drugs controller of India director general of health both a & b None			
	10)	a)	w many compulsory license 1 3	es are b) d)	e issued in India. 2 4	
	B)	Writa) b) c) d) e)	The patent act gives information application of patent. The pharmacy act gives in education regulations. Minimum 36 hrs/week we per shop act. The PCI does not contain members. Woman shall be required	rmation inform orking or ale	·	06
Q.2	Ans a) b) c) d)	Defin Give Give	the following. ne i) Employer ii) Wages iii the objectives of sales pro offences and penalties of ne factory .Give Objectives	motio pharr	on act. macy act.	16
Q.3	Ans a) b)	How done).		ing and registration of factory work under sales promotion	10 06
Q.4	Ans a) b)	Give appro	the following. the procedures for approvoval. the offences and penalties			16
Q.5	Ans a) b)	What	he following. t is the process of registrat the offences & penalties u			16

Q.6	Ans a) b)	Give the constitution and function of joint state pharmacy council. Explain the process of patent filing.	10 06
Q.7	Ans a)	wer the following What is executive committee. Give the term of office & casual vacancies.	16
	b)	Give details about employer leave under sales promotion act.	

Seat No. Set P	Seat No.
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r	rive Ye	ear II	N	ecn.) (Sem- larch/April erfume II (0	- 20		
•			esday, 20-May-20 To 06:00 PM	25		Max. Marks: 8	0
Insti	ruction	2	Q.Nos.1 and 2 and	e questions	from	Q.No.3 to Q.No.7.	
Q.1	A) (ose correct altern is the substand rance last longer of	ce that will ho	old a	nd fix aroma which helps a	0
		a) ̈	Solvent Perfume		b) d)	Fixative Top note	
	2)		pyramid of fragra Top notes Base notes	nces consis	ts of b) d)		
	3)	com a)	ne out the chemical bine to form single Hydrogenation Condensation		loss b)	ch two or more reactants are of water. Nitration All of the above	
	4)		at is a common us Flavoring agent i Antiseptic			Fragrance fixative	
	5)	alco	hol and carboxylic Nitrous acid		ataly b) d)	st for the esterification of Nitric acid None of the above	
	6)	a) b)	is the characte Alcoholic odour Rotten egg	ristic odour (of an b) d)	ester. Fruity like odour None of the above	
	7)	In G a) c)	Grignard reagent _ Methyl group Halogen	is not p	orese b) d)	ent. Magnesium acidic group	
	8)	•	lrogenation is a ch rogen to: Single bonds Triple bonds	emical reac	tion t b) d)	hat involves the addition of Double bonds Aromatic rings	

	9)		e family of civet.	b)	Cervidae	
		a) Viverric) Physe		b) d)	Styracaceae	
	10)	to a carbor a) Knoev	is Nucleophilic addit nyl group followed by renagel condensation condensation	dehyd	Condensation	
	B)	 Fixative The heat Perkin in Musk xi musk. The hydroric citror 	art notes serve as a breaction is a modificate ylene is a synthetic m	in a pouffer f tion of nusk fr	Aldol condensation reaction. agrance which mimics natural carried out to form mixtures	06
Q.2	a) Vb) Vc) V	Vrite a note o Vrite down th	ne physical and chemon heart note.	luring	coperties of Coumarin. condensation reaction. and uses of Myrrh.	16
Q.3	a) Eb) V	•	tail about Essential o		ve. umarin by Pechmann	16
Q.4	a) b)	following fixa a) Benzoin b	ological source, chematives o) Benzyl benzoate c) etail about the Perkin	Musk	emposition and uses of d) Civet on and Knoevenagel reaction	16
Q.5	a) b)	ouilding of p Define cond	on synthetic fixative erfumes and body of	the pe	in in detail synthesis of	16
Q.6	a)	nitration and	ion reaction. write do	nitratio	nitrating agent used in n reaction mechanism.	16

- Q.7 Answer the following.
 a) Discuss in detail about Nitration of Musk xylene.
 b) Explain in brief about mechanism of aldol condensation.

Seat	Sat	D
No.	Set	

Five Year Integrated (M. Tech.) (Sem-VI) (New) (CBCS) Examination:

		March/A Cosmetic Tech	•		
-		Monday, 19-May-2025 PM To 06:00 PM		Max	. Marks: 80
Instructio	ons:	1) Question No. 1 and 2 at 2) Attempt any 3 questions3) Draw neat labelled diag4) Figures to the right indicate	s from Q. grams wh	No.3 to Q.No.7. erever necessary.	
Q.1 A)	C h	noose correct alternatives. Industrial materials such as unprotected skin. a) Detergents c) Oven cleaners	b)	cause damage to the Metal polishes Organic solvents	10
	2)	The adhesive power of babincorporation of a) Zinc stearates c) Petrolatum		rs can be improved by t Lanolin None of the above	he
	3)	is not used in hydroca) Casein c) Acacia		ased system. Rubber-latex Guar gum	
	4)	a) 4-isopropyl catechol c) Mercapto-amines	b)		
	5)	The absorbency and adhes blending with other materia a) Kaolin c) Water	als such a		ved by
	6)	Dibromofluorescien is also a) 5 c) 10	known a b) d)	s D & C Orange No 7 8	<u></u> .
	7)	Zinc oxide is usually employed dry rouge. a) 2 to 8 c) 5 to 10	b)	mounts between 3 to 6 2 to 5	percent in

		8)		i	s use	ed to	impa	art red	d sha	ıdes	in n	nasc	ara.					
			a)	Um	bers					b)	Ch	romi	ium (oxid	е			
			c)	Zind	oxic	de				d)	Ca	rmin	e					
		9)		uid e Solı	-	nadov	ws ta	ke th	e for	m of b)	liqu Ge			or_	liqui	d dis	persi	on.
			,	Loti						d)			nsior	1				
	,	10)	 a)		may l na cla		ed a	s an	argill	ace		mate aseir		S.				
			c)		tonit	-				d)		oth a						
	B)	Wr	ite 1	true	or fa	lse.												06
		1) 2)	Zin	с ох		thou	ıght t	d fron to ha									adiati ties	on.
		3) 4)	Me	thyĺc	ellul	ose is	s use	ed as d in k					and	clea	nsei	S.		
		5) 6)						ermat eosir	_					se re	ed sa	alt.		
Q.2	Ans a) b) c) d)	Wr De Wr	ite a scri ite a	a note be in a note	e on briet e on	barri f safe vinyl	ety of -base	ateria baby ed sy equire	y pro stem	duct s.	S.		tive (crea	ıms a	and (gels.	16
Q.3	Ans a) b)	De	scri	be in		ail ba	-	prope prote					_	ners	S.			16
Q.4	Ans a) b)	Gi۱	∕e a	ny tv	vo foi	rmula		r baby				o pre	epare	e fac	ce m	asks	s/pack	16 <s.< th=""></s.<>
Q.5	Ans a) b)	Wr Wr	ite i ite a	n det a not		colo	ur of	spare the s	-				-	-			for	16
Q.6	Ans a) b)	Ex	olaiı	n in c	detail	liqui		scara shad		_					١.			16
Q.7	Ans a) b)	En Giv	list a	and e	expla	in va		step rless							_		sticks. and	16

Seat							S	et	P
No.							0		_
Five	Yea		New) (C	BCS) Exa	minatio	n: N	osmetic Technology) (Se larch/April - 2025 s – II (CT603)	·m-	VI)
•			urday, 24 To 06:00	-May-2025 PM			Max. Ma	rks:	80
Instru	ctio	2)	Attempt	1 and 2 are any three q to the right i	uestions	fron	n Q. No. 3 to Q. No. 7.		
Q.1 /	4) 1)	Which a) S b) E c) E	of the fo Solvent ex Orug abso Determina	xtraction	ot an ap ecular w		tion of distribution law?		10
2	2)	applic a) V		oroform	systems	is th b) d)	e distribution phenomenon r Benzene-water Ether-water	ot	
	3)	a) T	emperat	ffects the di ure of solute	stributio	n coe b) d)	efficient? pH All of the above		
	4)	a) N b) F c) L	/lolecular Hydrophil	weight icity ty and mem		_	design for predicting		
	5)	a) C b) li c) F	Coagulate ncrease p Prevent s	its are used colloids particle size edimentation recipitate in	n		orm		
	6)	a) E		on in colloid property operty		pe of b) d)			
	7)	a) F	n behavio Pseudopla Dilatant		ed by co	ornst b) d)	arch in water under shear? Newtonian Elastic		

	8)	 What is the behaviour of Newtonian fluids? a) Viscosity changes with shear b) Constant viscosity at all shear rates c) Viscosity increases over time d) Flow only after yield stress 								
	9)	True density can also be called a) Apparent density b) Intrinsic density c) Compressed density d) Bulk density								
	10)	A powder with an angle of repose of 45° is considered to have a) Excellent flow b) Good flow c) Passable flow d) Very poor flow								
Q.2	B)	 Write whether true or false. lonic dissociation can affect how a solute distributes between two phases. Only optical properties are used to characterize colloids. Peptization is the process of converting a so1 into a gel. Viscosity is not affected by temperature in dispersed systems. Packaging arrangements can impact the quality and performance of solid preparations. True density is always higher than bulk density. 	16							
Q.L	a)	State and explain Nernst distribution law along with its limitations. Explain Optical properties of colloids. Explain factors influencing rheology of dispersed system.								
Q.3	Ans a) b)	Explain the effect of molecular association and dissociation on the distribution of solute when added to an immiscible system. Explain the various applications of distribution law. Write a note on stability of colloidal systems.	08							
Q.4	a)	swer the following. Explain Plastic, Pseudoplastic and dilatant flow of liquids. What are derived Properties of powders? Explain in detail any four.	80 80							
Q.5	Ans a) b)	wer the following. Discuss the kinetic properties of colloids and explain about mechanism of peptization of colloid. Explain the Newtonian system of flow with examples. Explain the mechanism of thixotropy with examples.	08 08							

Q.6	_	swer the following.	08
	a)	Enumerate methods to determine the particle size. Explain any two methods to determine particle size.	Uō
	b)	Define colloids. Classify the colloids. Explain detail different types of colloids. Add note on electrical properties of colloids.	08
Q.7	Ans	swer the following.	
	a)	Define Viscosity along with its units of expression. Explain Negative thixotropy with examples.	80
	b)	With the help of neat diagram explain Andreson's pipette method to determine particle size.	80

Seat	Sat	D
No.	Set	r

Five Year Integrated (M. Tech. Course in Cosmetic Technology) (Sem-VI) (New) (CBCS) Examination: March/April - 2025 Beauty Culture - II (CT604)

	(Beauty Cultu	ıre -	II (CT604)
•		onday, 26-May-2025 I To 06:00 PM		Max. Marks: 80
Instructio	3) Questions 1 and 2 are co 2) Attempt any three from C 3) Draw neat labelled diagra 4) Figure to the right indicat). No ams 8	3 to Q. No. 7. give equations wherever necessary.
	Pro a) b) c)	ose correct alternative (Magnetic flags) fessional ethics is Trying to be friendly to peous A system of rules that tell parts to become a member of a A set of rules about beauty	ople profe a prof	ssionals how they should behave essional organization
2)	a) b) c)	at is concealer? It goes all over your face It goes under your eyes ar It goes around the forehea None of the above		spot
3)	a) b) c)	at's the use of powder or so To make the products stick To give the skin a dewy glo To give a skin a matte glow None of the above	k to tl ow	
4)	a) b) c)	scara is used for: Applying on the eyebrows Thickening and lengthenin Applying on the eyelids Beautifying the margins of	ig of t	·
5)	sha	ich of the following ingredie impoos? Glycerin and lactic acid Bentonite and beeswax	ents o b) d)	can be used for thickening of Sodium chloride and CMC Mineral oil and olive oil

	6)	Under what conditions should oil based makeup be used instead of water-based makeups? a) If someone has extremely dry skin b) When applying makeup for someone appearing on TV or film c) In humid climate d) All of the above	
	7)	Which of the following is not a benefit of regular manicures and pedicures? a) Improved nail health and appearance b) Increased risk of infection c) Reduced stress and relaxation d) Early detection of nail disorders	
	8)	The stationary part of the pin curl is the a) Circle b) Curl c) Base d) Stem	
	9)	What is the effect of cuticle cream? a) Emollient that softens the tissue at the base of the nail b) Removes excess cuticle c) Smooth the nail plate d) All of the above	
	10)	Nail stain can be removed with nail bleach or a) Peroxide b) Acetone c) An oil manicure d) Polish remover	
Q.1	,	Eyeshadows are available in liquid form only. We use light colors under the brow. Sometimes it is necessary to use a liner to cover the shine from dried lash glue. The athlete's foot is found between the toes and appears as redness and broken skin, which is very itchy. The technique in which the ends of the hair are cut at a slight taper, using diagonal lines is called beveling.	06
Q.2	a) b) c)	ver the following: (Any Eight) Describe professional ethics and desired attitude of beauticians to clients. What are general problems related to hairs? What is astringent preparation? Write a note on bridal makeup.	16

Q.3	,	Answer the following: What are the different shapes of faces? Write in detail about application of false eyelashes and their contraindications.	10
	B)	Write about some common hairstyles.	06
Q.4	' a)	Answer the following: Write about types of primers. Write a note on natural hair dyes.	10
	B) [Describe corrective makeup for lips.	06
Q.5	' a)	Answer the following: What is hair conditioner? Write a note on lipsticks.	10
	B) \	What is foundation in makeup?	06
Q.6	A) (ver the following: Solve the following: a) What are the different types of hairs. b) Describe corrective makeup techniques for nose.	10
	B) \	Write in detail about manicure preparations.	06
Q.7	A) 3	ver the following: Solve the following: a) Write a note on shampoo preparation. b) Describe eye makeup product.	10
	B) (Give a brief note on pedicure.	06

				_	
Seat No.				Set	Р
Five	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	natio	in Cosmetic Technology) on: March/April - 2025 oction - II (CT605-B)	(Sem	-VI)
•	& Date: Wednesday, 28-05-2025 : 03:00 PM To 06:00 PM		Max.	Mark	s: 80
Instr	uctions: 1) Q. Nos. 1 and 2 are co 2) Attempt any three que 3) Figure to right indicate	stions	from Q. No. 3 to O. No. 7.		
Q.1	 A) Choose the Correct alterna 1) Which of the following is a life a) Eczema c) Seasonal rhinitis 		Anaphylaxis		10
	2) The specific interaction between asa) Immune responsec) Antigen-antibody reaction	b)	Serological reaction	vn	
	 a) Antigen -Antibody reactions f a) Cell-mediated immunity b) Innate immunity c) Humoral immunity or antib d) Inflammation 				
	4) When antigen-antibody reacta) Agglutinationc) Precipitation	tions (b) d)	occur in vitro they are called as Serological reactions Neutralization	3	_•
	5) Which of the following can cana) Poison ivyc) Sunscreen	ause a b) d)	acute toxic contact dermatitis? Latex Hydrochloric Acid		
	6) How many healthy adult hum patch testing?a) Fivec) Twenty	nan su b) d)	ubjects are ideally selected for Ten Thirty		

7) Which of the following is a common cause of cracked heels?

b)

d)

a) Excessive sweating

c) Dry skin

Fungal infection

Allergic reaction

	8)		vnich of the following is ney extend to the dermis		symptom of neel fissures when	
		a)	Pain Itching	b) d)	Numbness Swelling	
	·	a) c)	eath of a portion of a tis Necrosis Cell death	b) d)	Inflammation Dead Tissue	
	10)		is keratolytic (skin e yperkeratosis.	exfoliant) a	nd has been shown to reduce	
		-	Hydrochloric acid Alpha hydroxy acid	b) d)	Salicylic acid Saccharide isomerase	
	В)	 1) 2) 3) 4) 5) 	Berloque Dermatitis w perfumes of bergamot Photo patch test is als contact dermatitis. Type III hypersensitivit reaction. The part of an antibod paratope.	as caused oil. o used to day is known y that reco	re called chromospheres. by the inclusion in some confirm a suspected allergic as arthus hypersensitivity gnizes the epitope is called a clowering of the long inner arch	06
Q.2	Ans a) b) c) d)	W D D		ures of ant tant and a	igen-antibody reactions. lergic contact dermatitis.	16
Q.3	Ans a) b)	W m D	nanagement.	·	d nutritional approaches in allergy treatment options for severe	16
Q.4	Ans a) b)	W pi	er the following: That is human repeat instructions of the following in the following:	of HRIPT.	test (HRIPT)? Explain the	16
Q.5	Ans a) b)	Ε	er the following: xplain in detail about Ey xplain the etiology and	•		16

Q.6	Ans	wer the following:
	a)	Differentiate between precipitation in liquid and precipitation in gel.

b) Describe the process of photopatch testing and its significance in diagnosing photo allergy.

Q.7 Answer the following:

16

16

- a) Explain the pathophysiology of allergic contact dermatitis, detailing the sequence of events from allergen exposure to the eczematous reaction.
- **b)** Describe the Magnusson and Kligman Guinea Pig Maximization Test for skin sensitization, highlighting its outline and procedure.

Seat	Sat	D
No.	Set	

Five Year Integrated (M. Tech.) (Sem-VII) (New) (CBCS) Examination:

			March Quality Assurand	h/April - ce Tech	
			aturday, 24-May-2025 M To 01:00 PM		Max. Marks: 40
Insti	ructio	2	I) All questions are com 2) Draw neat labelled dia 3) Figures to the right in	agrams v	
Q.1	Mult 1)	Any	choice questions. abbreviations or acrony ne of the SOP.	yms used	08 I in the SOP must be explained
		a) c)		b) d)	End None
	2)	with	porting utilities and prendesign specifications.	nises he	dence that the equipment, been built or installed in keeping
		a) c)	DQ OQ	b) d)	IQ PQ
	3)	Stat a) c)	tionary phase used in H Gas Solid		Liquid
	4)		R is a spectroscopic ted lectromagnetic radiation IR Radio frequency	າ r	UV
	5)	QIC a) c)	is a guideline for New drug Biological products	 b) d)	3
	6)	Zon a) c)	e IV is a type of the Hot humid Temprate	climate. b) d)	Hot dry Sub-tropical
	7)		sions have not cleared usidered as severe irritar 2		days the test material is 15

	8)	In the evaluation of sunscreen preparations, radiation absorption ability is evaluated. a) IR						
Q.2	a) b) c)	Enlist evaluation tests for skin creams involved in In-Vitro methods. What is the role of Radio-frequency transmitter in NMR spectrometer. What is the role of stability testing. Enlist types of validation. Give examples of different separation techniques. Give basic requirements of QA.	80					
Q.3	Writ a) b) c)	Gel Filtration Chromatography.						
Q.4	 Answer any two of the following. a) Give basic requirements of Quality Control (QC). b) Explain different sample injection methods used in gas chromatography c) Enlist and explain steps of change control. 							
Q.5	Ans a) b)	wer any one of the following. Define validation. Enlist types of process validation and explain in detail each. Explain evaluation tests in detail for lipsticks.	80					

Seat No.		Set	P
Fiv	e Year Integrated	(M. Tech.) (Sem-VIII) (New) (CBCS) Examination	:

-	ive Yo	ear I	ntegrated (M. Tech.) (Sem March/Apri Cosmetic Te Colours in Cosmet	il - 2 chn	ology
•			iday, 16-May-2025 // To 05:00 PM	103	Max. Marks: 40
Insti	ructio	2	 All questions are compulsor Draw neat diagrams with la Figures to the right indicate 	bels	
Q.1			the correct alternatives from of the following is not cool cool Blue Purple	lour	-
	2)	_	an purple is colour extracted f Snail Animal		Fish Crab
	3)	a)	ch of the following is NOT exa Indigo Congo Red	b)	
	4)		y is a colour of Happiness Sorrow	b) d)	Joy Wealth
	5)		ye's potential colouring power Flashing Tinctorial strength		Bleed
	6)		eries of colorants with similar of in lengths and number of subs Primary colors Color lakes	stitut	nical structure, differ only in their e groups known as Tertiary colors Homologous color
	7)	The a) b) c) d)	pigment stability is based on Inert substance Coating with one or more lay Both a and b None of the above		-
	8)	The a)	dyer's rocket is synonym of the Reseda luteola	b)	Juglans cinera

80

Q.2	a) b) c) d)	Give a short note on vat dyes. Write benefits of pigment colours. Write advantages of lake colours. Write down the precautions taken during incorporations of colors into skin cosmetics. Define dyes and flashing of colour. Define dyestuff. Write common dyestuff and Luxury dyestuff.	08
Q.3	Wri	te short notes. (Any Two)	08
	a)	Process of recognising colour	
	p)	· ·	
	C)	Red alternative and pink pastel rose	
Q.4	Ans	swer of the following (Any Two)	08
		Classify natural colours and synthetic colours along with examples and structure.	
	b)	Explain in detail preparations of dyestuff process.	
	c)	Explain in detail batch testing and color correction.	
0.5	۸na	ewer of the following (Any Two)	08
Q.5	a)	swer of the following (Any Two) Describe hiding power. Write advantages, disadvantages of natural	UO
	,	and synthetic colours.	
	b)	Explain in detail types of colorants and types of hair colors used in cosmetic preparations.	

Seat	Sat	D
No.	Set	

Five Year Integrated (M. Tech.) (Sem-VIII) (New) (CBCS) Examination:

			March/April Cosmetic Technolog			
-			nursday, 22-May-2025 M To 05:00 PM		Max. Marks:	40
Instr	uctio		1) All questions are compulsory. 2) Figures to the right indicate fu	ll ma	ırks.	
Q.1		•	choice questions amples of abrasive includes Silica Both a & c	b) d)	Calcium Carbonate None	80
	2)	a)	e anticaries agents used in dent Flurides Sodium Bicarbonate	al pre b) d)	Xylitol	
	3)	latl a)	what ratio sodium and potassiur her shaving cream? 3:2 5:2	n hyd b) d)	droxides are incorporated in 5:1 4:3	
	4)		radiation comprises wavelength 250nm and 400 nm 400 nm and 77 nm		29 nm and 400 nm	
	5)	Th a) c)	e mouthwash containing Chlorho Antiseptic mouthwash Antiallergic		ne Gluconate is Anticavity mouthwash Hemostatic	
	6)		il laquers is composed of Film former UV absorber	b) d)	Dyes All of the above	
	7)	To a) c)	oth powders contains Abrasive Both a & b	b)	Surfactant None of above	
	8)	La a) c)	ther shaving creams contains Soap Humactants	b) d)	Superfatting agents all of the above	

Q.2	Ans	wer (Any Four) of the following	80
	a) b)	What is preelectric shave lotion? Describe in short. What is nail laquer. Give examples.	
	c)	Give the ideal properties of dentrifrices.	
	d)	Give 2 examples of each antibacterial agent and flavouring agent in mouthwashes.	
	e)	Give ideal properties of nail preparations.	
	f)	Classify shaving preparations.	
Q.3		e notes on (Any Two) of the following	08
	•	Write a note on cuticle remover and nail bleach.	
	b)	Write a note on footcare preparations	
	c)	Write a note on suntan preparations.	
Q.4	Ans	wer (Any Two) of the following	80
	a)	Give an account of brushless shaving cream.	
	b)	What are sunscreen agents give their functions.	
	c)	What are foot powders and sprays? Describe.	
Q.5	Ansv	ver (Any One) of the following	08
	a)	Write a note on i) Aerosol Shaving foam ii) Dry shaving preparations.	
	b)	Describe in brief about tooth paste including basic structure & their formulations.	

Seat	Sat	D
No.	Set	

Five Year Integrated (M. Tech Course in Cosmetic Technology) (Semester - VIII) (New) (CBCS) Examination: March/April - 2025 Cosmeceuticals Microbiology (CT) (CT1803)

	(Sei	mes	Cosmeceuticals Microb		gy (CT) (CT1803)
•			nesday, 27-May-2025 N To 05:00 PM		Max. Marks: 40
Instr	uctio	2) All questions are compulso 2) Draw a neat labelled diagra 3) Figures to right indicate full	ım.	KS.
Q.1	Choo 1)	Mole recc a)	he correct alternative. ds are certain type of formation type of formation to the control of the control	b)	
	2)			•	cess that remove or kills all the surface or in a compound Disinfectant Germicides
	3)	In gr a) c)	ram staining, lodine is used a Fixative Solubilizer	s a _ b) d)	 Moderant Stain
	4)		ne the type of bacteria which oon for its own growth. Organotrophs Autotrophs	uses b) d)	CO ₂ as a sole source of Hetrotrophs Lithotrophs
	5)	a) c)	is bacteria which obtain er Chemotrophs Organotrophs	nergy b) d)	from chemical compounds. Phototrophs Lithotrophs
	6)	Whi a) c)	ch of these is not a selective Blood agar Macconkey agar	medi b) d)	a? Eosin ethylene blue agar Mannitol salt agar
	7)	The a) c)	viral envelope is composed of Phospholipid Lipid and Proteins	of b) d)	 Glycoprotein All of the above

	8)	In Viable plate count, each represents a from the sample population. a) Cell, Colony b) Colony, Cell c) Hour, generation d) Cell, generation	
Q.2	Ans a) b) c) d) e)	Define stain. Enlist the staining techniques in microbiology. Write down the classification based on nutritional requirement of bacteria Write down the general properties of fungi. Enlist methods used in the radiation control for sterilisation of bacteria. Write down the general characteristics of protozoa. Define germicides and microbiostasis.	08
Q.3	Writ a) b) c)	te short notes on of the following. (Any two) Mechanism of cell injury. Morphological and general characteristic of algae. Principle method of analysis to enumerate microorganism.	80
Q.4	Ans a) b) c)	bwer the following. (Any two) Discuss in detail about isolation and maintenance of pure culture. Explain in detail of structure, working and uses of autoclave with neat labelled diagram. Explain in detail factors related influencing the organism being killed activity.	80
Q.5	Ans a) b)	wer the following. (Any one) What are the different types of staining techniques in microbiology? Explain in detail about acid fast staining technique. Define antiseptic, sanitizer, disinfections. Discuss physical control method for sterilisation of bacteria.	80

Seat	Sat	D
No.	Set	

Five Year Integrated (M. Tech. Course in Cosmetic Technology)

	(Se	mes	ster - VII) (New) (CBCS) Ex Herbal Cosmetic		nation: March/April - 2025 I (CT1804)	
-			nursday, 29-May-2025 И То 05:00 PM		Max. Mark	s: 40
Insti	ructio	2	 All questions are compulso Draw neat labelled diagran Figures to the right indicate 	ns wh	•	
Q.1	Mult 1)	-	choice questions. us belongs to family Lamiaceae Caricaceae	b) d)	Nelumbonaceae Malvaceae	08
	2)	Pon a) c)	negranate peel contains Tannins Polyphenols	 b) d)	Fiber All of the above	
	3)	a) c)	method is useful for extract Water Distillation Both a and b		of essential oils. Steam Distillation Maceration	
	4)		ch of the following chemical o oxidant property? Koenimbine Koenigine		Koenine	
	5)	Sen		n acio H 4.		
	6)	Arni a) c)	ica contain Essential oils Thymol	b) d)	Fatty acid All of the above	
	7)	a) b) c)	ch of the following statement The solvent used for extract The insoluble material that r menstruum. Both a and b None of the above	ion is	called as marc.	

	8)	Identify the chemical constituent present in tulsi a) Eugenol b) Carvacrol	
		c) Both a and b d) None of the above	
Q.2	Ans a) b) c) d) e) f)	write down the procedure of infusion method of extraction. Write down the biological source and chemical constituents of Bhringraj. What do you mean by natural extractives? Write down the biological source and chemical constituents of Kesar. Write down the chemical constituents of Seetaphal. Give the chemical constituents and cosmetic uses of Grape fruit.	80
Q.3	a)	ite short notes on any two of the following. Write a note on ultrasound extraction method. Write a note on Manjistha. Write a note on preparation of herbal shampoo powder with suitable example.	08
Q.4	Ansa) b) c)	,	08 ses
Q.5	Ans a) b)	swer any one of the following. Explain the enfleurage method of extraction. Write down the biological and geographical source, chemical constituents and cosmetic uses of Orange peel.	08

Seat	Cat	D
No.	Set	

Five Year Integrated (M. Tech.) (Sem-VIII) (New) (CBCS) Examination: March/April – 2025 Management and Organizational Behavior (CT1808)

			Management and Organia	•		308)
			Monday, 02-June-2025 PM To 05:00 PM			Max. Marks: 40
Inst	ruct	ions	 3: 1) All questions are computed 2) Draw neat labelled diagramecessary. 3) Figure to the right indicated 4) Use of logarithmic table at the computer of the right. 	ams ar te full n	narks.	nenever
Q.1	Μι 1)	_	le choice questions refers to an intrinsic desir Existence Relatedness	b)	ersonnel developme Growth All the above	08 nt.
	2)	a)	entify the hygiene factor from l Technical supervision Recognition	b)	options. Achievement Responsibility	
	3)		is also called as quality in Problem solving team Functional team	b)		
	4)	a) b) c)	corrective action to resolve kn Revision of standard Changing the method of sele Training of workers All the above		eviation may involve	in
	5)	In a) b) c) d)	quality circle, following are the Follow the code of conduct Learn the problem-solving te Promote quality circle progra Attend leadership training	chniqu		ept
	6)	Ac a) c)	cording to Koontz O'DonneL I Hypothetical process Complex and unpredictable	b)	Intellectual process	3
	7)	a) c)	is the most fundamental a Functional authority Staff authority	authorii b) d)	iy. Line authority None of above	

	8)				B: T	here	_	niera	on-sy archic					•	•				e non	1-		
		a)	Fa	ılse;	True	_					b)	Tru	ıe;	Fal	se							
		c)	Fa	ılse;	Fals	se					d)	Tru	ıe;	Tru	е							
Q.2	An a) b) c) d) e)	Di W W Ex W	iffer rite hat xpla hat ana	rential dover the dover th	ate b vn lin 5S' a ny tv ontri nent	petw mitat ippro wo ir ibutio thou	een tions pach oforn on o ught	auth s of one n? mal of Pro ?	Four) hority contr group ofess y of s	olling os. sor C	g. Char	les l	Bal					atioı	n of		08	
Q.3	a)	Pr ar	roje nd t	ct m echr	nique	gem es.	ent	with	refe	renc	e to	bas	sic	con	npoı	nent	s of	net	work	, .	08	,
	c)			•	s of c nd's <i>i</i>	•	_		nt mo	del.												
Q.4	An a) b) c)	E E	xpla lab	ain f orate	eatu e in d	res deta	of Q il- Jo	ualit ob e	Two) ty Cir nlarg up de	cle. jeme		ent.									08	,
Q.5	An a) b)	i ii) i))	Defi Defi Exp	ine T ine p Iain i	eam lanr non-	n; ela ning -fina	aboı exp ıncia	One) rate r lain i lal ince xplair	ole o ts di entiv	ffere	nt t	ype	es.							03 05 03 05	

Seat No.	t P

Five Year Integrated (M. Tech. Course in Cosmetic Technology) (Sem - IX) (New) (CBCS) Examination: March/April - 2025 Advanced Cosmetic Technology - I (CT1901)

							gy - I (CT1901)	
•				ursday, 15-May-20 To 02:00 AM)25			Max. Marks: 80
Instr	ucti	ons	2	Question numbe Attempt any 3 qu Figure to right ind	uestions fron	n Q. I	No. 3 to Q. No. 7.	
Q.1	A)		Fo a) b) c)	Improves the sta	soluble molecules	10 g their effects		
		2)	a)	are thermodynatic microemulsions Coarsemlusions	amically stal	ble. b) d)	Macroemulsions None of above	
		3)	-	oosomes are made lipids both	e of	b) d)	waters none	
		4)		.B for W/O emulsion 1-2.5 10-15	on is	b) d)	7-1 3-6	
		5)	-	oosomes are bioco ove sentence is _ correct Incorrect			radable, and have partially correct None	low toxicity
		6)		entify the different ible oil, Sorbates, Edible oil Benzoates	•		n given group belov hites Sorbates Sulphites	N.
		7)	Na a) c)	noparticles are pr Solvent evaporat salting out	•	b)	Microencapsulation	on

	8) Absorption of medicament through skin is best when we use following vehicle, except						
				•	b)	Vegetable oil	
			c)	Organic solvents	ď)	Mineral oil	
	ç	9)	Ve	hicles used for cosmetics are			
			a)	Emulsion	b)	Creams	
			c)	Ointment	d)	all of above	
	10		a) b) c)	Proorganisms get into the cost Poor manufacturing condition Packaging that doesn't adeq Ineffective preservation syste encourage growth of microor	ns uatel _j em pa	y protect the product articularly for ingredients that	
			d)	all of these			
	В)	a)b)c)d)	Ei TI na Li su of O. P	•	tem i ures v pid bi ase s reser t ess	ncludes nanoliposomes and with an aqueous core layer. self-life and prevent spoilage	06
Q.2				e following question			16
	a)			the steps in manufacturing of sification process in detail.	COSI	netics. Describe the	
	b)			a note on control of microbial	cont	amination in cosmetics.	
	c)			a well labelled diagram of tra			
				ibe two major processes of pe			
	d)			a note on humectants and ar etics.	itioxic	dants in manufacturing of	
0.3	Δne	WAI	r th	e following question			16
Q.J				be formulation of liposomes.			10
	-			be design & formulation of na	nopa	rticles.	
Q.4	a)	Exp	olai	ne following question n in brief the microencapsulat n role of cyclodextrins in cosn		s.	16

SLR-YG-74

Q.5	Ans a)	wer the following question Write down the composition of perfume and describe its role in perfume.	16
	b)	Comment on control of microbial contamination in cosmetic manufacturing.	
Q.6		wer the following question Write about liposome preparation method by ether injection method. Comment on potentially allergenic substances used as fragrances.	16
Q.7		wer the following question Describe 'Parabens' as controversial ingredients and write down need of preservation in detail. Write a note on COSMOS.	16

Seat	Sat	D
No.	Set	–

Five Year Integrated (M. Tech. Course in Cosmetic Technology) (Sem - X) (New) (CRCS) Examination: March/April - 2025

	((Sem	- X) (New) (CBCS) Exar Research Method		-	2025
-			dnesday, 14-May-2025 To 05:00 PM			Max. Marks: 40
Instr	uctic	-	All question are compulso Figures to the right indicate	-	l marks.	
Q.1	Mul 1)	The _ a)	hoice questions is referred as father of the control of the	b)	David Berliner	08
	2)	a) b) c)	om sampling is helpful as i Reasonably accurate free from personal biases an economical method of all of above			
	3)	Whick a) c)	n of the following is not an Research Methodology Conclusion	b)		rt writing?
	4)	In gro a) b) c) d)	Oup interview there are One interviewer and one i More than one interviewer One interviewer and more More than One interviewe	nterv and than	I one interviewee n one interviewee	viewee
	5)	Whick a) c)	n of the following is not an Research Methodology Conclusion	esse b) d)	ntial element of report Reference None of these	rt writing?
	6)	Whicl a) b) c) d)	n technique is generally fol Purpose sampling techniq Area sampling technique Systematic sampling tech None of the above	ue		is finite?
	7)	Whicl a) c)	n among the following is No Thematic analysis Discourse analysis	OT ro b) d)	elated to qualitative re Case study Survey method	esearch?

	8)	In "RESEARCH" "R" means a) Role b) Retain c) Relly d) Round	
Q.2	Ans a) b)	swer any four of the following. Define Research. Write any two characteristics of good research.	08
	c) d) e)	What is Research design? Give the sources of literature. Define sampling.	
	f)	What is research report?	
Q.3	Wri a)	ite notes on any two of the following. Write note on different types of Research.	08
	b) c)	Write note on different types of Research. Write note on different types of sampling technique. Write note on types of research report with examples.	
Q.4	Ansa) b) c)	swer any two of the following. Describe objective of research. Explain bibliography in detail. Explain research design.	08
Q.5	Ans a) b)	swer any one of the following. Describe in detail methods of data collection. Describe the steps in report writing.	08

Seat	Sat	D
No.	Set	–

Five Year Integrated (M. Tech. Course in Cosmetic Technology)

			n - X) (New) (CBCS) Exan Research Method	nina		
•			ednesday, 14-May-2025 // To 05:00 PM		Max. Marks:	35
Instr	uctio	ns:	 All question are computed Draw neat labelled diagrammed necessary. Figures to the right indicated Use of logarithmic table 	ram ate	s and give equations whenever full marks.	
Q.1	Mul ¹	Wha rese	choice questions. It is the name of the concept arch is carried out? Research hypothesis Research paradigm	b)	Synopsis of Research	05
	2)	a) b) c)	dom sampling is helpful bec Reasonably accurate An economical method of d Free from personal biases All of the above			
	3)		lestion which requires a solu Observation Data		is Problem Experiment	
	4)		earch method is a part of Problem Research Techniques	b) d)	Experiment Research methodology	
	5)	Con a) c)	verting a question into a Res Solution Problem formulation		chable problem is called Examination Problem Solving	
Q.2	Ans a) b) c) d) e)	Give Wha Wha Defin Disti	any five of the following e different methods for collect at is the hypothesis? at is literature review? ane Research design. anguish between primary dat at is Bibliography?	J	·	10

10

Q.3	Write short note on the following			
	a)	Write a detailed note on sampling and its design.		
	b)	Write a note on the role and significance of research.		

- Q.4 Answer any one of the following a) Write a note on Structure and components of scientific reports.
 b) Explain the necessity of defining a Research Problem.