

Id	1
Question	The region of visible light which is most useful for photosynthesis is -----
A	Blue, red
B	Green, red
C	Violet, blue
D	Green, blue
Answer	A

Id	2
Question	Maximum evaporation in ocean will occur at -----
A	Poles
B	Equator
C	Wetlands
D	Evenly at all places
Answer	B

Id	3
Question	There are various types of bonds like metallic bond, ionic bond, wandervall & hydrogen bond. Among the following the weakest bond is -----
A	Ionic
B	Metallic
C	Hydrogen
D	Wandervall
Answer	D

Id	4
Question	Vinblastin & vincristine are used as anticancer drugs. They acts as an inhibitor of -----
A	RNA biosynthesis
B	DNA replication
C	Telomerase
D	Microtubules
Answer	D

Id	5
Question	Why do fats give more energy than carbohydrates?
A	Fats have carboxyl group
B	Fats are more reduced than carbohydrates
C	Fats are larger than carbohydrates
D	Fats have more number of bonds than carbohydrates
Answer	B

Id	6
Question	In which of the following technique there is no electrophoretic step
A	Dot blot
B	Western bolt
C	Northern blot
D	Southern blot
Answer	A

Id	7
Question	The requirement of long day length or low temperature treatment for flowering can be substituted by -----
A	Gibberellins
B	Coumarins
C	2,4-D
D	Morphactins
Answer	A

Id	8
Question	Which of the following denaturing reagent is used in Sangers method of DNA sequencing?
A	8 M Urea
B	2 N NaoH
C	5% SDS
D	2 M Guonadine hydrochloride
Answer	A

Id	9
Question	What would be the effect of increasing humidity on rate of transpiration
A	Rate of transpiration will decrease
B	Rate of transpiration will increase
C	Initially low then it will be high
D	It will be unaffected
Answer	A

Id	10
Question	Among the following which process do not occur in nucleus
A	Replication
B	Transcription
C	Translation
D	Repair
Answer	C

Id	11
Question	Major cause of evolution of genes & protein is -----
A	Point mutation
B	Chromosomal aberrations
C	Sexual reproduction
D	Gene duplication & divergences
Answer	D

Id	12
Question	Among the following the critically endangered plant is -----
A	Dipterocarpous nilgirinsensis
B	Saraca indica
C	Cupressus cashmeriana
D	Terminalia arjuna
Answer	C

Id	13
Question	In TCA cycle malonate is competitive inhibitor structurally similar to-----
A	Succinate
B	Fumarate
C	Oxaloacetate
D	α - keto glutarate
Answer	A

Id	14
Question	Negative potential across plasma membrane is maintained by-----
A	Passive transport
B	Active transport
C	Ion channels
D	Transporters
Answer	B

Id	15
Question	Which of the following do not bring variation in population.
A	Random drift
B	Non-random mating
C	Recombination
D	Natural selection
Answer	C

Id	16
Question	DNA fragmentation is characteristic feature of -----
A	Cell death
B	Mutation
C	Cancer growth
D	Cell division
Answer	A

Id	17
Question	Complete photosynthetic apparatus of chloroplast necessary for photosynthesis is coded by-----
A	Nuclear gene
B	Chloroplast gene
C	Nuclear & chloroplast gene
D	Chloroplast & mitochondrial gene
Answer	C

Id	18
Question	Biodiversity hotspots are characterised on the basis of -----
A	Endemic flowering plants & threat perception
B	Species of flowering plants
C	Endemic flowering plants
D	Threat perception
Answer	C

Id	19
Question	Biological species concept can not be applied on -----
A	Pathogenic species
B	Species of aquatic ecosystem
C	Species producing viable hybrids
D	Sympatric species
Answer	C

Id	20
Question	During opening of stomata which ions are transported from neighbouring cell to guard cells-----
A	K^+ ions
B	Na^+ ions
C	Cl^- ions
D	Ca^+ ions
Answer	A

Id	21
Question	Translocation of photosynthate in plants occur through-----
A	Xylem
B	Phloem
C	Cambium
D	Endodermis
Answer	B

Id	22
Question	Primary acceptor of Co ₂ in photosynthesis is-----
A	Ribose
B	Ribulose-5-P
C	Ribulose 1,5-bi phosphate
D	3-phosphoglycerate
Answer	C

Id	23
Question	During cell cycle sister chromatid are pulled apart during-----
A	Meatphase
B	Anaphase
C	Prophase
D	Interphase
Answer	B

Id	24
Question	Satellite DNA consist of _____.
A	Extrachromosomal DNA
B	Short repetitive nucleotide sequence
C	Ribosomal gene region
D	Single gene region
Answer	B

Id	25
Question	In-----piece of DNA molecule is diagrammatically represented indicating sites of cleavage by various selected endonucleases separated by marked in number of bases.
A	Restriction maps
B	Heteroduplex map
C	Genetic map
D	Cytogenetic map
Answer	A

Id	26
Question	When two or more authors published a new species or propose a new name, their names are linked by using epithet-----
A	et
B	emend
C	in
D	ex
Answer	A

Id	27
Question	Binomials with identical genus name & species epithet are called as -----
A	Homonym
B	Tautonym
C	Basionym
D	Synonym
Answer	B

Id	28
Question	The newly collected specimen which is used as substitute, when the original type material is missing in a herbarium, is designated as -----
A	Lectotype
B	Holotype
C	Paratype
D	Neotype
Answer	D

Id	29
Question	Benthum & Hookers system of classification begins with the order (now known as family)---
A	Graminaceae
B	Eleagnaceae
C	Ranunculaceae
D	Piperaceae
Answer	C

Id	30
Question	α taxonomy deals with -----
A	Classical taxonomy
B	Chemotaxonomy
C	Phylogeny
D	Experimental taxonomy
Answer	A

Id	31
Question	Root cap cell originate from -----
A	Root epithelium
B	Columella cell
C	Quiscent centre
D	Vascular cambium
Answer	A

Id	32
Question	Hardy-weinberg law will not operate under conditions, when -----
A	3 alleles are involved
B	Weak selection of one of the allele
C	Skewed sex ratio
D	Mutated allele is not involved in sexual selection
Answer	B

Id	33
Question	Synthetic seed is produced by encapsulating somatic embryo with-----
A	Sodium alginate
B	Sodium Chloride
C	Sodium acetate
D	Sodium nitrate
Answer	A

Id	34
Question	Which plant has been used in phytoremediation for uptake of cadmium from contaminated soil-----
A	Helianthus annus
B	Brassica juncea
C	Silene vulgarae
D	Oscimum basalicum
Answer	B

Id	35
Question	Phytochromes involved in red/far red response are dimeric chromoproteins. The two subunits of phytochromes are linked with-----
A	PAS domain
B	PTB domain
C	Hinge region
D	Kinase domain
Answer	C

Id	36
Question	During cell division sometimes there will be failure of separation of sister chromatids. This event is called as -----
A	Interference
B	Fusion
C	Coincidence
D	Non disjunction
Answer	D

Id	37
Question	-----plant is used as an source of rubber
A	Castilloa elastica
B	Ficus elastiaca
C	Both a & b
D	Centella asiatica
Answer	C

Id	38
Question	The hormone produced as result of photoperiodic induction is known as.
A	Cytokinin
B	Florigen
C	Vernalin
D	GA
Answer	B

Id	39
Question	The specific enzyme code number (E.C.number) consist of -----
A	One digit
B	Two digit
C	Three digit
D	Four digit
Answer	D

Id	40
Question	Reverse transcription was studied by -----
A	Temin and Baltimore
B	Smith
C	Jacob
D	Watson and Crick
Answer	A

Id	41
Question	Which of these polymers is abundant inside the nucleus?
A	Collagen
B	Intermediate filaments
C	Actin filaments
D	Microtubules
Answer	B

Id	42
Question	The technique of DNA fingerprinting was used for the first time by _____ in 1984
A	Wateson and Crick
B	Alec Jeffreys
C	E.M. Southern
D	Mendel
Answer	B

Id	43
Question	Labelled antibodies are used to detect _____
A	Detect the presence of a particular DNA molecule in Southern blotting
B	Detect the presence of a particular RNA molecule in Southern blotting
C	Detect the presence of a particular protein molecule in Southern blotting
D	Detect the presence of a particular protein molecule in Western blotting
Answer	D

Id	44
Question	Reduced or changed function of the pant in response to stress is called as -----
A	Physical strain
B	Chemical strain
C	Biological strain
D	Mechanical strain
Answer	C

Id	45
Question	Electrophoresis of histones & myoglobin under non-denaturing condition (pH=7.0) results in -----
A	Both proteins migrate to the anode
B	Histones migrate to the anode & myoglobin migrates to the cathode
C	Histones migrate to the cathode and myoglobin migrated to the anode
D	Both proteins migrates to the cathode
Answer	C

Id	46
Question	-----is an example of fiber yielding plant
A	Linum usitatissimum
B	Corchorus capsularis
C	Both a & b
D	Azadirachta indica
Answer	C

Id	47
Question	IUCN is also called as -----
A	Man & Biosphere programme
B	World Conservation Union
C	World conservation consortium
D	Worldwide conservation union
Answer	B

Id	48
Question	Which of the following region has maximum biodiversity
A	Mangrooves
B	Temperate rainy forest
C	Taiga
D	Coral reefs
Answer	D

Id	49
Question	Endemic species are -----
A	Rare species
B	Species localised in a specific region
C	Cosmopolitan in distribution
D	Critically endangered species
Answer	B

Id	50
Question	Biodiversity-----
A	Increases towards equator
B	Decrease towards equator
C	Remains same throughout the planet
D	Has no effect on change in latitude
Answer	A