Name & Signature of the Invigilator PAPER – II OMR Answer Sheet No. :	6000 6000	LIFE	SCIENCES		
CODE-04 Roll No.: (in figures as in Hall Ticket) Roll Number in words: Instructions for the Candidates 1. Write your Roll Number in the space provided on the top of this page. 2. This paper consists of one hundred (100) multiple choice type of questions. All questions are compulsory. 3. At the commencement of examination, the question booklet will be given to you. In the first 5 minutes, you are request to open the booklet and compulsorily examine it as below: (i) To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a bookle without sticker seal and do not accept an open booklet. (ii) Tally the number of pages and number of questions in the booklet with the information printed on the cover page Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy shou be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterward neither the Question Booklet will be replaced nor any extra time will be given. (iii) After this verification is over, the Test Booklet Number should be entered on the OMR Answer Sheet and the OM Answer Sheet Number should be entered on this Test Booklet. 4. Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the oval as indicated below the correct response against each item. Example: (A) © D) where (B) is the correct response. 5. Your responses to the items are to be indicated on the OMR Answer Sheet under Paper – II only. If you mark you response at any place other than in the oval in the OMR Answer Sheet, exce for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ at other unfair means, such as change of response by scratching or using white fluid, you will render yourself hable disqualification. 8. You have to return the original OMR Answer Sheet to the invigilator at the end of the examination compulsorily armust not carry it wi	Name & Signature of the Invigilator	PAPER - II	OMR Answer Sheet No. :		04
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	 પરક્ષાના શરૂઆતમાં આપને પ્રશ્નપુસ્તિકા આ કરવું: 	પવામાં આવશે. પ્રથમ પાંચ	(૫) મિનિટ દરમ્યાન તમારે પ્રશ્નપુસ્તિકા ખોલ	ત્રી અને ફરજિયાતપણે	નીચે મુજબ પરી
3. પરાક્ષાના શરૂઆતમાં આપને પ્રશ્નપુસ્તિકા આપવામાં આવશે. પ્રથમ પાંચ (૫) મિનિટ દરમ્યાન તમારે પ્રશ્નપુસ્તિકા ખોલી અને ફરજિયાતપણે નીચે મુજબ પરીક્ષ કરવું :	(i) પ્રશ્નપુસ્તિકાનો વપરાશ કરવા માટે આ પ્રશ્નપુસ્તિકા સ્વીકારશો નહીં,	કવર પૃષ્ઠની ધાર પર આપે	લ સીલ સ્ટીકર ફાડી નાખો. કોઈપણ સંજોગો:	માં સીલ સ્ટીકર વગર•	ી કે ખુલ્લી
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પશ્ચ પાસ્તિકા સવા સવ, અનુક્રમમાં અથવા અન્ય કાઇ ફરક હાથે અશાંત કાઇપણ સંજાગામાં ખામાયુક્ત પ્રશ્નપુસ્તિકા સ્વાકારશા નહા. અને જા ખામાયુક્ત પ્રશ્નપુસ્તિકા મળી હોય તો નિરીક્ષક પાસેથી તુરંત જ બીજી સારી પ્રશ્નપુસ્તિકા મેળવી લેવી. આ માટે ઉમેદવારને પાંચ (૫) મિનિટનો સમયગાળો આપવામાં આવશે. પછીથી, પ્રશ્નપુસ્તિકા બદલવામાં આવશે નહીં કે કોઈ વધારાનો સમયગાળો આપવામાં આવશે નહીં	 પ્રત્યેક પ્રશ્ન માટે ચાર જવાબ વિકલ્પ (A), (B) પેનથી ભરીને સંપૂર્ણ કાળું કરવાનું રહેશે. 	, (C) અને (D) આપવામાં ર		Act of the second second second	
પશ્ચપુત્તિકા મળી હોય તો નિરીક્ષક પાસેથી તુરંત જ બીજી સારી પ્રશ્નપુત્તિકા મેળવી લેવી. આ માટે ઉમેદવારને પાંચ (૫) મિનિટનો સમયગાળો આપવામાં આવશે. પછીથી, પ્રશ્નપુત્તિકા બદલવામાં આવશે નહીં કે કોઈ વધારાનો સમયગાળો આપવામાં આવશે નહીં. (iii) આ ચકાસણી સમાપ્ત થાય પછી, પ્રશ્નપુત્તિકાનો નંબર OMR જવાબ પત્રક પર લખવો અને OMR જવાબ પત્રકનો નંબર પ્રશ્નપુત્તિકા પર લખવો. 4. પ્રત્યેક પ્રશ્ન માટે ચાર જવાબ વિકલ્પ (A), (B), (C) અને (D) આપવામાં આવેલ છે. તમારે સાથા જવાબના ઓવલ (oval)ને નીચે આપેલ ઉદાહરણ મુજબ	 આ પ્રશ્નપુસ્તિકાના પ્રશ્નોના જવાબ અલગથી અ આપેલ ઓવલ(oval) સિવાય અન્ય સ્થાને જન 6. કાર્યું કામ (Rough work) પ્રશ્નપુસ્તિકાના અં 	ાપવામાં આવેલ OMR જવ ગ્રાબ અંકિત કરશો તો તે જવ તિમ પૃષ્ઠ પર કરવું.	ત્રાબનું મૂલ્યાંકન કરવામાં આવશે નહીં.		
બ વાર છપાયા કાય, અનુક્રમમાં અથવા અન્ય કોઈ ફરક ક્ષેય અર્થાત કોઈપણ સંજોગોમાં ખામીયુક્ત પ્રશ્નપુસ્તિકા સ્વીકારશો નહીં. અને જો ખામીયુક્ત પ્રશ્નપુસ્તિકા મળી હોય તો નિરીક્ષક પાસેથી તુરંત જ બીજી સારી પ્રશ્નપુસ્તિકા મેળવી લેવી. આ માટે ઉમેદવારને પાંચ (૫) મિનિટનો સમયગાળો આપવામાં આવશે. પછીથી, પ્રશ્નપુસ્તિકા બદલવામાં આવશે નહીં કે કોઈ વધારાનો સમયગાળો આપવામાં આવશે નહીં. (iii) આ યકાસણી સમાપ્ત થાય પછી, પ્રશ્નપુસ્તિકાનો નંબર OMR જવાબ પત્રક પર લખવો અને OMR જવાબ પત્રકનો નંબર પ્રશ્નપુસ્તિકા પર લખવો. 4. પ્રત્યેક પ્રશ્ન માટે ચાર જવાબ વિકલ્પ (A), (B), (C) અને (D) આપવામાં આવેલ છે. તમારે સાચા જવાબના ઓવલ (oval)ને નીચે આપેલ ઉદાહરણ મુજબ પેનથી ભરીને સંપૂર્ણ કાળું કરવાનું રહેશે. ઉદાહરણ : A	થઈ શકે, ઑકંત કરશી અથવા અભદ્ર ભાષાનો કે સફેદ શાહીનો ઉપયોગ કરી બદલશો તો અ 8. પરીક્ષા સમય પૂરો થઈ ગયા બાદ ઓરીજીનલ જવું નહીં. પરીક્ષા પૂર્ણ થયા બાદ ઉમેદવાર	પ્રયોગ કરો, અથવા અન્ય પને પરીક્ષા માટે અયોગ્ય OMR જવાબ પત્રક જે તે ઓરીજીનલ પ્રશ્નપુસ્તિકા અ	કોઈ અનુચિત સાધનોનો ઉપયોગ કરો, જેમકે જાહેર કરવામાં આવશે. નિરીક્ષકને ફરજિયાત સોપી દેવું અને કોઈ પ ત્રને OMR જવાબ પત્રકની ડુપ્લિકેટ કોપી પે	અંકિત કરી દીધેલ જ ાણ સંજોગોમાં તે પરીક્ષ	વાબ ભૂંસી નાખવે તા ખંડની બહારલ
પ્રશ્વાસિક મળી હોય તો નિરીક્ષક પાસેથી તુરંત જ બીજી સારી પ્રશ્વપુસ્તિકા મેળવી લેવી. આ માટે ઉમેદવારને પાંચ (પ) મિનિટનો સમયગાળો આપવામાં આવશે. પછીથી, પ્રશ્નપુસ્તિકા બદલવામાં આવશે નહીં કે કોઈ વધારાનો સમયગાળો આપવામાં આવશે નહીં. (iii) આ યકાસણી સમાપ્ત થાય પછી, પ્રશ્નપુસ્તિકાનો નંબર OMR જવાબ પત્રક પર લખવો અને OMR જવાબ પત્રકનો નંબર પ્રશ્નપુસ્તિકા પર લખવો. 4. પ્રત્યેક પ્રશ્ન માટે ચાર જવાબ વિકલ્પ (A), (B), (C) અને (D) આપવામાં આવેલ છે. તમારે સાચા જવાબના ઓવલ (oval)ને નીચે આપેલ ઉદાહરણ મુજબ પેનથી ભરીને સંપૂર્ણ કાળું કરવાનું રહેશે. 6. આ પ્રશ્નપુસ્તિકાના પ્રશ્નોના જવાબ અલગશી આપવામાં આવેલ OMR જવાબ પત્રકમાં પેપર-IIલખેલ વિભાગમાં જ અંકિત કરવા. જો આપ OMR જવાબ પત્રક આપેલ એવલ (oval) સિવાય અન્ય સ્થાને જવાબ અંકિત કરશો તો તે જવાબનું મૂલ્યાંકન કરવામાં આવશે નહીં. 6. કાચું કામ (Rough work) પ્રશ્નપુસ્તિકાના અંતિમ પૃષ્ઠ પર કરવું. 7. જો આપ OMR જવાબ પત્રક નિયત જગ્યા સિવાય અન્ય કોઈપણ સ્થાને, આપનું નામ, રોલ નંબર, ફોન નંબર અથવા એનું કોઈ ચિહ્નકે જેનાથી તમારી ઓળખ થઈ શકે, અંકિત કરશો અથવા અભ્ર ભાષાનો પ્રયોગ કરો, અથવા અન્ય કોઈ અનુચિત સાધનોનો ઉપયોગ કરો, જેમકે અંકિત કરી દીધેલ જવાબ બૂસી નાખવો કે સફેદ શાહીનો ઉપયોગ કરી બદલશે તો આપને પરીક્ષા માટે અયોગ્ય જાહેર કરવામાં આવશે. 8. પરીક્ષા સમય પૂરો થઈ ગયા બાદ એરીજીનલ OMR જવાબ પત્રક જે તે નિરીક્ષકને ફરજિયાત સોપી દેવું અને કોઈ પણ સંજોગોમાં તે પરીક્ષા ખંડની બહાર લઇ જવું નહીં. પરીક્ષા પૂર્ણ થયા બાદ ઉમેદવાર ઓરીજીનલ પ્રશ્નપુસ્તિકા અને OMR જવાબ પત્રકની ડુપ્લિકેટ કોપી પોતાની સાથે લઈ જઈ શકે છે. 9. માત્ર કાળી / ભૂરી બોલ પોઈન્ટ પેન વાપરવી.	Design 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		TABLE A CO.		
પ્રશ્વાસિક મળી હોય તો નિરીક્ષક પાસેથી તુરંત જ બીજી સારી પ્રશ્વાસિકા મેળવી લેવી. આ માટે ઉમેદવારને પાંચ (પ) મિનિટનો સમયગાળો આપવામાં આવશે. પછીથી, પ્રશ્વપુસ્તિકા બદલવામાં આવશે નહીં કે કોઈ વધારાનો સમયગાળો આપવામાં આવશે નહીં. (iii) આ યકાસણી સમાપ્ત થાય પછી, પ્રશ્નપુસ્તિકાનો નંબર OMR જવાબ પત્રક પર લખવો અને OMR જવાબ પત્રકનો નંબર પ્રશ્નપુસ્તિકા પર લખવો. 4. પ્રત્યેક પ્રશ્ન માટે ચાર જવાબ વિકલ્પ (A), (B), (C) અને (D) આપવામાં આવેલ છે. તમારે સાચા જવાબના ઓવલ (oval)ને નીચે આપેલ ઉદાહરણ મુજબ પેનથી ભરીને સંપૂર્ણ કાળું કરવાનું રહેશે. 6. આ પ્રશ્નપુસ્તિકાના પ્રશ્નોના જવાબ અલગથી આપવામાં આવેલ OMR જવાબ પત્રકમાં પેપર-IIલખેલ વિભાગમાં જ અંકિત કરવા. જો આપ OMR જવાબ પત્રક આપેલ એવલ (oval) સિવાય અન્ય સ્થાને જવાબ અંકિત કરશો તો તે જવાબનું મૃલ્યાંકન કરવામાં આવશે નહીં. 6. કાચું કામ (Rough work) પ્રશ્નપુસ્તિકાના અંતિમ પૃષ્ઠ પર કરવું. 7. જો આપ OMR જવાબ પત્રક નિયત જગ્યા સિવાય અન્ય કોઈપણ સ્થાને, આપનું નામ, રોલ નંબર, ફોન નંબર અથવા એનું કોઈ ચિહ્નકે જેનાથી તમારી ઓળખ થઈ શકે, અંકિત કરશો અથવા અલક ભાષાનો પ્રયોગ કરો, અથવા અન્ય કોઈ અનુચિત સાધનોનો ઉપયોગ કરો, જેમકે અંકિત કરી દીધેલ જવાબ બૂસી નાખવો કે સફેદ શાહીનો ઉપયોગ કરી બદલશો તો આપને પરીક્ષા માટે અયોગ્ય જાહેર કરવામાં આવશે. 8. પરીક્ષા સમય પૂરો થઈ ગયા બાદ એરીજીનલ OMR જવાબ પત્રક જે તે નિરીક્ષકને ફરજિયાત સોપી દેવું અને કોઈ પણ સંજોગોમાં તે પરીક્ષા ખંડની બહાર લઇ જવું નહીં. પરીક્ષા પૂર્ણ થયા બાદ ઉમેદવાર એરીજીનલ પ્રશ્નપુસ્તિકા અને OMR જવાબ પત્રકની ડુપ્લિકેટ કોપી પોતાની સાથે લઈ જઈ શકે છે.	1. ખોટા જવાબ માટે નકારાત્મક ગુણાંકન પ્રથા •	તથી.			



Q OQ OQ



LIFE SCIENCES

Paper - II

1. During sexual reproduction in *Arabidopsis*, how many total meiotic divisions will be required for forming 100 zygotes/100 grains?

(A) 25

(B) 75

(C) 125

(D) 200

2. Mass spectrometric analysis of a peptide showed there are 5 amino acids in the peptide. They are Gly, Ala, Ser, Thr, Val. How many different sequences can be constructed theoretically using these 5 amino acids?

(A) 25

(B) 15

(C) 16

(D) 120

- 3. Which one of the following statements is incorrect in angiosperms?
 - (A) They have a dominant sporophyte generation.
 - (B) Double fertilization occur.
 - (C) Presence of lignified vascular system.
 - (D) Independent sporophyte and gametophyte stages.
- 4. Cultivated bananas are sterile because
 - (A) Male flower-bearing plants are very rare
 - (B) They lack natural pollinators
 - (C) They are triploid and therefore seeds are not set
 - (D) They are a cross of two unrelated plant species
- 5. The pigment molecules responsible for photosynthesis are located in the
 - (A) Cytoplasm
 - (B) Stroma of chloroplast
 - (C) Thylakoid membrane of the chloroplast
 - (D) Mitochondria
- **6.** Match the following fertilization methods in plants and choose the correct option.
 - 1. Hydrophily
- i. Animals
- 2. Zoophily
- ii. Bats
- 3. Chiropterophily iii. Insects
- 4. Entomophily
- iv. Water
- (A) 1 iv, 2 iii, 3 ii, 4 i
- (B) 1 i, 2 iv, 3 iii, 4 ii
- (C) 1 iv, 2 i, 3 ii, 4 iii
- (D) 1 ii, 2 iii, 3 i, 4 iv



7. Which one of the is mismatched	he following pairs of plant growth regulators and their function?
(A) Auxin	 Promote cell elongation

(B) Gibberellins - Promote bud and seed dormancy

(C) Cytokinins - Delay senescence(D) Abscisic acid - Stimulate closing of stomata

- **8.** Which one of the following statements about the function of Casparain Strip is correct?
 - (A) It prevents excess transpiration from leaves.
 - (B) It plugs the sieve pores of phloem under stress.
 - (C) It regulates the ion movement into the vascular cylinder of the root.
 - (D) It allows gas exchange between atmosphere and cortex of root.
- **9.** Following are the various events that occur during the development of embry sac in plants. Identify the correct order.
 - 1. PCD of haploid megaspores
 - 2. MMC formation
 - 3. Movement of the polar nuclei towards the centre
 - 4. Cellularization of the embryo sac
 - 5. Functional Megaspore (FM) formation
 - 6. Egg cell formation.
 - (A) 2, 1, 5, 3, 4, 6
 - (B) 2, 1, 3, 6, 4, 5
 - (C) 1, 3, 5, 4, 6, 2
 - (D) 5, 4, 3, 6, 2, 1
- 10. Water is an excellent solvent for polar molecules. The reason is that water
 - (A) Greatly strengthens electrostatic forces
 - (B) Greatly weakens electrostatic forces
 - (C) Greatly strengthens hydrogen bond formation
 - (D) Greatly weakens hydrophobic interaction
- 11. Amino acid threonine has how many optical isomers?
 - (A) 1

(B) 2

(C) 3

(D) 4



- 12. Embryo sac of angiosperm is
 - (A) 6-celled 8-nucleate
 - (B) 7-celled 8-nucleate
 - (C) 8-celled 7-nucleate
 - (D) 7-celled 7-nucleate
- 13. Orientation of a cloned DNA fragment in a plasmid vector can be checked by
 - (A) PCR using two gene specific primers
 - (B) Restriction digestion with an enzyme that has a single restriction site within the cloned gene and none in the vector
 - (C) PCR using a combination of one gene specific primer and one vector specific primer
 - (D) Restriction digestion with an enzyme that has two restriction sites within the vector sequence and none in the cloned gene
- 14. Lignin a heterogeneous polymer of monolignols, synthesized in
 - (A) Phenylpropanoid pathway
 - (B) Terpenoid biosynthesis pathway
 - (C) Carbohydrate biosynthesis pathway
 - (D) Fatty acid biosynthesis pathway
- **15.** What happens to the osmotic potential of the pure water, if we add NaCl and sugars?
 - (A) Osmotic potential of the pure water becomes negative
 - (B) Osmotic potential of the pure water becomes positive
 - (C) Solutes do not show any effect on the osmotic potential
 - (D) Osmotic potential of the pure water becomes zero
- 16. The term Km was coined by
 - (A) Michaelis Menton
 - (B) Haldane and Briggs
 - (C) Henri
 - (D) Lineweaver Burk
- 17. Which one of the following is true for enzymes?
 - (A) Enzymes change the rate of a chemical reaction
 - (B) Enzymes affect the final equilibrium of reaction
 - (C) Enzymes are consumed in a chemical reaction
 - (D) Enzymes do not show specificity for a reaction



18.	A drop of water on glass slide takes	a bead snape and why not alcohol r
	(A) Water has high surface tension	
	(B) Alcohol has high surface tension	ı
	(C) Water has low surface tension	
	(D) Both (A) and (C)	
19.	Exosome in eukaryotes involved in	all the following except
	(A) rRNA processing	
	(B) tRNA processing Wobble pairing	goccurs
	(C) Polyadenylation	
	(D) mRNA degradation	
20	In plants, Tunica-Carpus theory development.	explains the growth and
	(A) Root	
	(B) Shoot	
	(C) Leaf	
	(D) Both (A) and (C)	
21	Which one of the following present virus to the CD4 receptors?	on the HIV virus facilitates binding of the
	(A) Gp120	(B) Gp121
	(C) Gp40	(D) Gp41
22	 In some plants, the mechanism wh receptivity do not coincide to avoid 	ere timing of anther dehiscence and stigma self-pollination is called
	(A) Dichogamy	(B) Herkogamy
	(C) Monoecy	(D) Dioecy
23	and Y. Mutation of gene X produce	id of Agrobacterium harbours two genes A es a rooty tumour while mutation of gene Y used on the above information, which one o ?
	(A) Gene X encodes auxins and gen	
	(B) Gene X encodes cytokinins and	
	(C) Gene X and gene Y both encode	e auxins.

(D) Gene X encodes opines while gene Y encodes cytokinins.



 (A) ΔG = 0 (B) ΔG = -1 (C) ΔG = 1 (D) ΔG = ΔG° 25. Transcription factors SPEECHLESS (SPCH), MUTE and FAMA are involted development of (A) Root (B) Leaf (C) Trichome (D) Stomata 26 is the physical manifestation of the sum of genetic environmental effects. (A) Genotype (B) Phenotype (C) Morphotype (D) Phyllotype (D) Phyllotype 	
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(C) Morphotype (D) Phyllotype 27. Arbuscule formation is a distinguishing feature of	
27. Arbuscule formation is a distinguishing feature of	
(A) Phizohium	
(A) Rhizobium	
(B) Endomycorrhizae	
(C) Ectomycorrhizae	
(D) Lichen	
28 are the important regulators of the cell cycle.	
(A) Cyclins and Cyclin-Dependent Kinases	
(B) Homeotic genes	
(C) SCF proteins	
(D) APC complex	
29. Which one of the following agents is responsible for Mad cow disease?	
(A) Viroids	
(B) Prions	
(C) Tsetse fly	
(D) Rota virus	
30. The pathogen responsible for the Irish famine is	
(A) Albugo candida	
(B) Phytophthora infestense	
(C) Pernospora parasitica	
(D) Cochilobolus carbonum	



- 31. Toll-like receptors are crucial components of
 - (A) Adaptive immunity
 - (B) Membrane trafficking
 - (C) Apoptosis
 - (D) Innate immunity
- 32. C₅₅H₇₂O₅N₄Mg is the chemical formula of
 - (A) Chlorophyll a
 - (B) Phytochrome
 - (C) Xanthophyll
 - (D) Anthocyanin
- **33.** Which one of the following is the correct sequence of chemical substances produced during the origin of life on the earth?
 - (A) Water, amino acid, nucleic acid, enzyme
 - (B) Water, amino acid, enzyme, nucleic acid
 - (C) Water, nucleic acid, amino acid, enzyme
 - (D) Nucleic acid, water, amino acid, enzyme
- **34.** In a horticulture plant, red colour fruit (R) is dominant over orange colour (r) and oval-shaped phenotype (D) is dominant over sphere-shaped phenotype (d). Determine the phenotype of the parents, if the cross between red, sphere with red, sphere gives ³/₄ red sphere and ¹/₄ orange sphere.
 - (A) $RRDD \times rrdd$

(B) Rrdd × Rrdd

(C) $RrDd \times rrdd$

- (D) $rrDD \times RRdd$
- **35.** A protein gave positive results with all the tests used against proteins, except absorbance at 280 nm. What is the reason?
 - (A) Absence of aromatic amino acids
 - (B) Presence of aromatic amino acids
 - (C) Absence of aromatic amino acids and peptide bonds
 - (D) Presence of aromatic amino acids and peptide bonds
- **36.** The mutant phenotype can be rescued to wild-type by genetic manipulation. This method is known as
 - (A) Gene complementation
 - (B) Gene silencing
 - (C) Gene recombination
 - (D) Gene synthesis



37.	Mutation in single nucleotide resulti amino acid is called (A) Transversion	ng in a codon that codes for a different
	(B) Missense mutation	
	(C) Frameshift mutation	
	(D) Nonsense mutation	
	` '	
38.	In the phylogenetic analysis thedistances based on the assumption (transitions and transversions).	evolutionary model computes of equal probability for all substitutions
	(A) Bootstrapping	
	(B) Jukes-Cantor	
	(C) UPGMA	
	(D) Kimura	
39.	Which mineral elements are found ar	nd is required for Cytochrome C function?
	(A) Copper and Iron	1
	(B) Iron and Zinc	
	(C) Magnesium and Copper	
	(D) Sodium and Iron	
40 .	Binary vector is used for	
	(A) Gene cloning	
	(B) Gene expression	
	(C) Sequencing	
	(D) Storage	
41.		ation in a gene which is involved in gamete one egg cell and subsequent fertilization bryos are
	(A) Haploid	(B) Diploid
	(C) Polyploid	(D) Triploid
12 .	An instrument used to measure the a confined spaces is called as	amount of water vapor in air, in soil, or in
	(A) Hydrometer	
	(B) Hygrometer	
	(C) Vapourmeter	
	(D) Rain gauge	



43.	the immunity in humans. After isola	from a medicinal plant which enhances tion, he purified the protein by a protein ed Sephadex G-100. Which principle he of novel protein?
	(A) Sodium Dodecyl Sulphate-Polyac	rylamide Gel Electrophoresis
	(B) Pulse Field Gel Electrophoresis	
	(C) Counter Immuno Electrophoresis	
	(D) Gel Filtration Chromatography	
44.	65, 30 and 80 kDa with pl of 6.5, 7.	rpeptides (X, Y and Z) whose masses are 0 and 8.0 respectively, were subjected to rder of their separation from top to bottom
	(A) X, Y and Z	(B) Y, X and Z
	(C) X, Z and Y	(D) Z, X and Y
45.	Auxanometer is used for measuring	
	(A) Respiration	
	(B) Plant movement	
	(C) Plant growth	
	(D) Transpiration	
46.	Which one of the following microsco	gametophyte development related gene opes would you suggest him, if he wants emale gametophyte with the help of GFI rter?
	(A) Dissecting microscope	
	(B) Scanning electron microscope	
	(C) Confocal microscope	
	(D) Phase contrast microscope	
47.	is used to identify proprinting.	roteins by using peptide mass finger
	(A) SDS-PAGE	(B) MALDI-TOF
	(C) Chromatography	(D) FACS
	- - -	



- 48. Which one is not true for the species possessing C4 Pathway?
 - (A) They are able to minimize the photo-respiration by using more efficient enzymes to fix CO_2
 - (B) Oxidative decarboxylation occurs in the chloroplasts of bundle sheath cells
 - (C) They have high compensation point for CO₂
 - (D) They have lower photosynthesis yield in comparison to C3 and CAM plants
- **49.** In a population of 200 diploid individuals, the frequency of neutral alleles P1 and P2 are 0.4 and 0.6 respectively. Given that the population size remains same for three generations and the distribution of traits follow Hardy-Weinberg equilibrium, the frequency of heterozygotes in the third generation would be
 - (A) 0.36

(B) 0.32

(C) 0.24

- (D) 0.48
- 50. With reference to chemosynthesis, consider the following statements:
 - 1. The synthesis of organic compounds from inorganic compounds using energy stored in inorganic substances such as sulphur, ammonia and hydrogen. Energy is released when these substances are oxidised by certain organisms.
 - 2. Organisms inhabiting at the bottom of deep oceans and in dark caves develop their food through the process of chemosynthesis.

Select the correct answer using the code given below.

(A) 1 only

(B) 2 only

(C) Both 1 and 2

- (D) Neither 1 nor 2
- **51.** Which of the following plant growth regulators is responsible for releasing seed dormancy and promoting seed germination?
 - (A) Auxin

(B) Jasmonic acid

(C) Gibberellin

- (D) Abscisic acid
- **52.** Keystone species typically
 - (A) Has a disproportionately large impact on an ecosystem in which it occurs
 - (B) Is an example of a lithophyte
 - (C) Reduces overall diversity of an ecosystem
 - (D) Is an herbivore



- 53. Which one of the following is true for florigen?
 - (A) Produced in the leaves and controls the leaf development
 - (B) Produced in the leaves and is responsible for flowering
 - (C) Produced in the stem and controls the leaf development
 - (D) Produced in the stem and is responsible for controlling phyllotaxy
- 54. Consider the following statements regarding detritus food chain:
 - 1. Dead plant remains such as leaves, bark, flowers and dead remains of animals, including fecal matter, constitute detritus.
 - 2. Decomposers are also known as saprotrophs.
 - 3. Detritivores break down detritus into smaller particles. This process is called fragmentation.

Select the correct answer using the code given below.

- (A) 2 only
- (B) 1 and 2 only
- (C) 2 and 3 only
- (D) 1, 2 and 3
- 55. Greatest loss of biodiversity in the last two centuries has resulted from the
 - (A) Physical alteration of habitats
 - (B) Introduction of alien species to new ecosystems
 - (C) Use of fossil fuels to support transportation and electrical production
 - (D) Use of rivers, lakes and oceans for transportation
- **56.** Which one of the following amino acids acts as a precursor of auxin biosynthesis?
 - (A) Serine
 - (B) Tyrosine
 - (C) Tryptophan
 - (D) Valine
- **57.** Tendrils in plants are an example of
 - (A) Convergent evolution
 - (B) Divergent evolution
 - (C) Adaptive radiation
 - (D) Co-evolution



58.		nave contributed to the recognition of Western na regions as hotspots of biodiversity:
	1. High species diversity	
	2. High vegetation density	
	3. High rate of endemism	
	4. Ethno-botanical importance	•
	5. Threat perception	
	6. Adaptation of flora and faur	a to warm and humid conditions.
	Which three of the above are co	rrect criteria in this context ?
	(A) 1, 2 and 6	(B) 1, 3 and 5
	(C) 2, 4 and 6	(D) 3, 4 and 6
59.	Which one of the following state	ements is not correct?
		grouping of organisms on the basis of the
	(B) Phenetic classification doe analogous characters.	s not distinguish between homologous and
	(C) Numerical taxonomy determ basis of their phenetic syste	ines the relationships among organisms on the m.
	(D) Holotype is the term given to	a duplicate specimen of original type.
60.	Which of the following type of p by photosynthesis?	roductivity counts the total fixation of energy
	(A) Secondary Productivity	(B) Primary Productivity
	(C) Net Primary Productivity	(D) Gross Primary Productivity
51.	Synthesis of sucrose during pho	otosynthesis occurs in
	(A) Chloroplast	(B) Amyloplast
	(C) Cytosol	(D) Vacuoles
52 .	In which type of signaling, the produces receptors?	cell that expresses messenger molecules also
	(A) Autocrine	(B) Endocrine
	(C) Neocrine	(D) Heterocrine



(C) Cytochrome

63.	Fol	lowing are some statements regard	ding	the plant growth hormones:
	1.	Gibberellins control the tropic res	pon	ses.
	2.	Stimulation of fruit set by gibbere	llin	s has been found in apples.
	3.	Cytokinins cause delay in leaf ser	nesc	ence.
	4.	Ethylene induces flowering in ma	ngo	and pineapple.
	5.	ABA promotes the stomatal opconcentration.	eni	ng by increasing cytosolic calcium
	Wh	nich one of the following combinati	ons	of above statements is wrong?
	(A)	1 and 5	(B)	2 and 3
	(C)	3 and 4	(D)	2 and 4
64.	Wh	nich one of the following statement	s is	not correct?
				cell and absent in prokaryotic cell.
		-		roteins and lipids interact mainly by
	(C)	All membrane processes, such as carried out by proteins.	pun	nping and channeling of molecules are
	(D)	Channel proteins can facilitate be	oth	active and passive transport.
65.	. A p	person with Klinefelter syndrome i	s	
	(A)	Monosomic	(B)	Trisomic
	(C)	Triploid	(D)	Haploid
66	. Wi	nich one of the following is not cor	rect	about oncogenes?
		They are growth regulatory prote		
		They cause cellular transformation		
	(C)	They are always localized in the	nucl	eus
		They are often over expressed in		
67		species of which organism can with cause of multiple copies of genom		nd heavy doses of radioactive radiation,
		Synechocystis		Deinococcus
	` '	Streptomyces	(D)	Mycobacterium
68	. W	hich one of the following play a ke	y ro	le in photo-morphogenesis in plants ?
		Anthocyanin		Chlorophyll

(D) Phytochrome



69.	Which of the following pathways is l	ooth anabolic and catabolic ?
	(A) Glycolysis	(B) Tricarboxylic acid cycle
	(C) Glyoxylate pathway	(D) Pentose phosphate pathway
7 0.	Gluconeogenesis occurs in which or	gan ?
	(A) Liver	(B) Muscle
	(C) Pancreas	(D) Stomach
71.	Which of the following is not true wi	th reference to microtubules?
	(A) They are involved in the movement	nt of mitotic spindle
	(B) They are involved in the movement	nt of flagella
	(C) They are involved in the cyclosis	
	(D) Microtubule associated proteins	are involved in tubulin polymerization
72 .	Which one of the following amino ac	ids is glucogenic as well as ketogenic?
	(A) Leucine	(B) Lysine
	(C) Isoleucine	(D) Valine
73.	Which one of the following vitamir reactions?	as plays important role in carboxylation
	(A) Riboflavin	(B) Folic acid
	(C) Niacin	(D) Biotin
74.	Which one of the following plays impreactions?	oortant role in single carbon transfer
	(A) Tetrahydrofolate	(B) Thiamin pyrophosphate
	(C) Biotin	(D) Niacin
75.	Which one of the following processe mammalian cell?	es does not occur in the mitochondria of
	(A) Synthesis of DNA	(B) Protein synthesis
	(C) Fatty acid biosynthesis	(D) β -oxidation of fatty acids
76.	The genome of which virus obeys Ch	argaff's rule ?
	(A) Adenovirus	(B) $\phi X 174$
	(C) μ phage	(D) TMV



77 .	Which one of the following enzyme template strand?	s attaches complementary bases to the
	(A) DNA polymerase	(B) RNA primer
	(C) Helicase	(D) Single strand binding protein
78.	Which of the following show up to 10 genomes?	00-fold variation in the size of their
	(A) Angiosperms	(B) Mammals
	(C) Bacteria	(D) Amphibians
79 .	Among the following which DNA will	show the lowest $Cot_{1/2}$?
	(A) E.coli genomic DNA	
	(B) T ₄ DNA	
	(C) Calf thymus non-repetitive DNA	
	(D) Saccharomyces cerevisiae genom	ic DNA
80.	Among the following genomes which	one has the least gene density?
	(A) Homo sapiens	
	(B) Saccharomyces cerevisiae	
	(C) Oryza sativa	
	(D) Caenorhabditis elegans	
81.	The compound 5-hydroxy tryptamin	e is also called
	(A) Serotonin	(B) Histamine
	(C) Dopamine	(D) Didydroxy phenyl alanine
82.	During the replication of DNA, which for the synthesis of okazaki fragmen	one of the following enzymes is responsible its ?
	(A) DNA polymerase I	(B) DNA polymerase II
	(C) DNA polymerase III	(D) RNA polymerase I
83.	Ping-pong mechanism is observed w	rith
	(A) Decarboxylase	(B) Transaminase
	(C) Glutamate dehydrogenase	(D) Glutamine synthetase
84	. Lysine is type of amin	o acid on the basis of the product of
	degradation.	
	(A) Glucogenic	(B) Glucogenic and ketogenic
	(C) Basic chain	(D) Ketogenic



85.	The biosynthesis of which amino aci	d is similar to nucleic acid biosynthesis
	(A) Phenyl alanine	(B) Tryptophan
	(C) Glutamic acid	(D) Histidine
86.		rt law is seen in absorption spectroscopy,
	when the chromophore	
	(A) Undergoes decomposition	
	(B) Concentration is too high	
	(C) Concentration is too low	
	(D) Undergoes aggregation	
87.	Ellipticity is measured in which spec	etroscopy?
	(A) Circular dichroism	
	(B) Atomic absorption spectroscopy	
	(C) Raman spectroscopy	
	(D) Infrared spectroscopy	
88.	The pI value of ubiquitin is 6.7. This	protein can bind DEAE cellulose column
	at what pH?	
	(A) Any pH, since binding to DEAE of	ellulose is independent of pH
	(B) At a pH above 6.7	
	(C) At a pH below 6.7	
	(D) At pH 6.7, as a protein shows high	ghest affinity to ion exchanger at its pI
89.	The hormone that is associated with	maintenance of blood pressure is
	(A) Adrenaline	(B) Norepinephrine
	(C) Aldosterone	(D) Dopamine
90.	The electromagnetic radiation used i	n ESR is in the region of
	(A) Ultraviolet	(B) Gamma radiation
	(C) Radiowaves	(D) Microwaves
91.	What is the pl value of a nonstandar	rd amino acid X whose pK_1 , pK_2 and pK_3
	values are 2.1, 7.8 and 11.3?	
	(A) 6.7	(B) 4.95
	(C) 9.55	(D) 7.06



92.	The other name for blue shift in absorbable (A) Bathochromic shift	(B) Quantum shift
	(C) Hypsochromic shift	(D) Stoke's shift
93.	The hormone that is associated with (A) Epinephrine (C) Serotonin	the feeling of happiness and pleasure is (B) Norepinephrine (D) Dopamine
94.	This enzyme is a marker enzyme of g (A) Isocitrate lyase (C) Citrate synthase	lyoxysomes (B) Aconitase (D) Malate dehydrogenase
95.	Which of the following hormones does with respect to biosynthesis? (A) Oxytocin (C) Adrenaline	es not belong to the group of other three (B) Serotonin (D) Dopamine
96.	Cori cycle occurs in these organs of (A) Liver and kidney (C) Liver and pancreas	the body (B) Muscle and liver (D) Muscle and pancreas
97.	The larva of which phylum of anim adult form shows radial symmetry? (A) Annelida (C) Mollusca	als is bilaterally symmetrical though the (B) Coelenterata (D) Echinodermata
98.	Urinary and genital systems develop (A) Ectoderm (C) Endoderm	from which germ layer or layers? (B) Mesoderm (D) Ectoderm and mesoderm
99.	Brain and central nervous system de (A) Ectoderm (C) Endoderm	evelop from which germ layer or layers? (B) Mesoderm (D) Ectoderm and mesoderm
100.	Pepsin in stomach is secreted by wl (A) Parietal cells (C) Chief cells	nich cells ? (B) Foveolar cells (D) G cells



Space for Rough Work



Space for Rough Work