



BIOLOGY

BOOKS - SARAS PUBLICATION

MODEL QUESTION PAPER-8

Exercise

1. Identify the incorrect statement about the Gram positive bacteria

A. Teichoic acid absent

B. High percentage of peptidoglycan is found in cell wall

C. Cell wall is single layered

D. Lipopolysaccharide is present in cell wall

Answer:



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2. Example for negatively geotropic roots _____

A. Ipomoea, Dahlia

B. Asparagus, Ruellia

C. Vitis, Portulaca

D. Avicennia, Rhizophora

Answer:



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3. Arrange the following events of meiosis in correct sequences and select the correct option

Crossing over

Synapsis

Terminalisation of chiasmata

Disappearance of nucleolus.

A. B, A, C, D

B. A, B, C, D

C. B, C, D, A

D. B, A, D, C

Answer:



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4. DPD of a fully turgid cell is equal to

A. 0

B. 1

C. 2

D. 3

Answer:



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5. Respiratory quoteint of malic acid.

A. 0.7

B. 1.33

C. 4

D. 0.8

Answer:



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6. Bakanae disease is caused by the fungus

A. Kurosawa

B. *Gibberella fujikuroi*

C. Dwarf pea assay

D. Terperoids

Answer:



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7. Flowers are zygomorphic in _____.

A. Cerropegia

B. Thevetia

C. Datura

D. Solarium

Answer:



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8. Mention two characters shared by gymnosperms and angiosperms ?



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9. What is Microsatellites?



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10. Bring out the significance of phase contrast microscopy



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11. What are the factors affecting the rate of enzyme reaction?



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12. What do you mean by apostemonous flower?



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13. Identify correct match .

1. Die back disease of citrus -(i) Mo

2. Whip tail disease -(ii) Zn

3. Brown heart of turnip - (iii) Cu

4. Little leaf - (iv) B

A. 1 (iii) 2 (ii) 3 (iv) 4 (i)

B. 1 (iii) 2 (i) 3 (iv) 4 (ii)

C. 1 (i) 2 (iii) 3 (ii) 4 (iv)

D. 1 (iii) 2 (iv) 3 (ii) 4 (i)

Answer:



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14. List out the higher energy compounds.



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15. Differentiate between lytic cycle and lysogenic cycle.



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16. How will you distinguish Solanaceae members from Liliaceae members?



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17. Describe amitosis.



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18. What is Quiescent centre? Add a note its importance.



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19. In which season the vessels of angiosperms are larger in size, Why?



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20. Two groups (A & B) of bean plants 450nm & Group B to light of wave of similar size and same leaf area were length of 500-550nm. Compare the placed in identical conditions. Group A photosynthetic rate of the 2 groups

givwas exposed to light of wavelength 400 reasons.



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21. Write the similarities and differences between

Fusiform and Napiform root



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22. Explain the different types of placentation with example?



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23. Define cytokinesis.



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24. Explain osteo-sclereids with diagram?



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25. How phosphorylase enzyme open the stomata in starch sugar interconversion theory ?



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26. Write note on partial parasite



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27. How minerals affect photosynthesis?





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28. Differentiate haplontic and diplontic life cycle.



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29. Matching.

i.		a)	cell
ii.	 Open	b)	insulators
iii.	Source of electricity	c)	open key
iv.	Do not allow electric charges	d)	bulb (does not glow)



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30. Molecular taxonomic tool consists of

A. DNA and RNA

B. Mitochondria and Endoplasmic
reticulum

C. Cell wall and Membrane proteins

D. All the above

Answer:



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31. Match the following column I with column II and choose the correct option



A. A-iv, B-iii, C-ii, D-i

B. A-iii, B-iv, C-i, D-ii

C. A-iii, B-i, C-iv, D-ii

D. A-ii, B-iv, C-iii, D-ii

Answer:



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32. A person having both antigen A and antigen B on the surface of RBCs belongs to blood group

A. A

B. B

C. AB

D. O

Answer:



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33. Bowman's capsule and the glomerulus together constitute

A. Podocytes

B. Renal tubules

C. Renal corpuscle

D. Proximal convoluted tubule

Answer:



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34. The progressive degeneration of skeletal muscle leading to death from lung or heart failure

A. Muscular dystrophy

B. Tetany

C. Atrophy

D. Muscle fatigue

Answer:



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35. Which acts as a satiety centre?

A. Hypothalamus

B. Limbic system

C. Brain stem

D. Thalamus

Answer:



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36. The structure which connects the hypothalamus with anterior lobe of pituitary gland is the

A. Dendrites of neuro hypophysis

B. Axons of neurohypophysis

C. Bands of white fibers from cerebellar
region

D. Hypophyseal portal system

Answer:



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37. Match the following.

1. Bombyx mori	—		
(a) Champa	—	(I)	Muga
2. Antheraea assamensis	—		
(b) Mulberry	—	(II)	Eri
3. Antheraea mylitta	—		
(c) Arjun	—	(III)	Tassar
4. Attacus ricini	—		
(d) Castor	—	(IV)	Mulberry

A. 1-b-IV

B. 2 -a-1

C. 3 - c - III

D. All the above

Answer:



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38. Concept Mapping- Use the following terms to create a concept map that shows the major characteristic features of the phylum nematoda: Round worms, pseudocoelomates, digestive tract, cuticle, parasite and sexual dimorphism.



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39. Write short notes on Alzheimer's disease.



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40. What is the sphincter of oddi?



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41. Write short notes on Erythropoietin.



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42. Resistance in the airways is typically low.

Why? Give two reasons.



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43. Write notes on endurance.



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44. What are the main criteria of systematics?



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45. Write short notes on concept of species



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46. What are the cells found in coelomic fluid of an earthworm?



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47. Name the common Indian earthworm.



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48. What are the primary functions of the respiratory system?



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49. Air moving from the nose to the trachea passes through a number of structures. List in order of the structures.



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50. Identify what type of neuron is this and label the parts.



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51. Mention the advantages of MOET?



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52. What are the advantages of artificial insemination ? D



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53. Write notes on absorption of fats in man



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54. Distinguish between arteries and veins.



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55. Explain the process of micturition.



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56. What are the benefits of earthworms?



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57. Write short notes on haemoglobin



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