



BIOLOGY

BOOKS - SARAS PUBLICATION

MODEL QUESTION PAPER-2

Exercise

1. Which of the following is not a cryptogam?

A. Algae

B. Bryophyta

C. Pteridophyta

D. Gymnosperms

Answer:



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2. Gynoecium with united carpels is termed as

_____ .

A. Apocarpous

B. Multicarpellary

C. Syncarpous

D. None of the above

Answer:



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3. Who proposed the Fluid Mosaic Model of plasma membrane ? Describe the fluid mosaic model of plasma membrane with the help of labelled diagram.

A. Phospholipids and Oligosaccharides

B. Phospholipids and hemicellulose

C. Phospholipids and integral proteins

D. Phospholipids and polysaccharides

Answer:



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4. Which one is the longest phase of cell cycle

A. 'S' phase

B. 'M' phase

C. G_1 phase

D. G_2 phase

Answer:



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5. Match the following

A) Lichens - (i) Fungi and roots of higher plants

B) Mycorrhizae - (ii) Fungi and Algae

C) Azolla - (iii) Cell division

D) Cytokinin -(iv) Anabaena azollae

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

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

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

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

Answer:



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6. Which chlorophyll molecule does not have a phytol tail?

A. Chl- a

B. Chl-b

C. Chl-c

D. Chl-d

Answer:



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7. Thickening and differentiation of cells take place during

- A. Elongation phase
- B. Formative phase
- C. Maturation phase
- D. Flowering phase

Answer:



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8. Differentiate homoiomerous and heteromerous lichens.



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9. Mention two characters shared by gymnosperms and angiosperms ?



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10. Define Cell cycle.



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11. What do you mean by convolute ptyxis?



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12. What is syntype?



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



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14. Describe corymb inflorescence



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15. What is taxonomic hierarchy.



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16. Define micrometry.



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17. Distinguish the anatomy of dicot stem from monocot stem.



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18. In a forest, if the bark of a tree is damaged by the horn of a deer, How will the plant overcome the damage?



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19. List out the higher energy compounds.



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20. Mention the phases of growth in plants.



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21. List the characters of species.



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22. What is kinetochore?



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23. What are enzymes involved in phosphorylation and dephosphorylation reaction in EMP pathway ?



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24. Differentiate haplontic and diplontic life cycle.



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25. Define conduplicate ptyxis.



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26. What is mitogen ?



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27. What are metabolites?



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



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29. The nitrogen is present in the atmosphere in huge amount but plants fail to utilize it . Why ?



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30. Four chambered heart is present in

A. Lizard

B. Snake

C. Scorpion

D. Crocodile

Answer:



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31. Earthworm is brown due to presence of

A. Blood

B. Haemoglobin

C. Haemocyanin

D. Porphyrin

Answer:



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32. CO_2 is transported through blood to lungs

as

A. Carbonic acid

B. Oxyhaemoglobin

C. Carbaminohaemoglobin

D. Carboxyhaemoglobin

Answer:



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33. What stimulates Na^+ reabsorption in the proximal convoluted tubule by vasoconstriction?

A. Angiotensin II

B. Aldosterone

C. Angiotensin I

D. Vasopressin

Answer:



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34. Match the following and select the correct option

- A. Male horse and Female donkey - i) Mule
- B. Male donkey and Female horse - ii) Tigon
- C. Male lion and Female Tiger - iii) Hinny
- D. Male tiger and Female lion - iv) Liger

Answer:



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35. Macrophages exhibits ___ movement for engulfing pathogens

- A. Ciliary movement
- B. Amoeboid movement
- C. Flagellar movement
- D. Walking movement

Answer:



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36. Which gland is called as hypophysis cerebri?

A. Pituitary gland

B. Thyroid gland

C. Adrenal gland

D. Thymus

Answer:



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37. Assertion: Nuptial flight is a unique flight taken by the queen bee followed by several drones.

Reason: The queen bee produces a chemical substance called pheromone. The drones in that area are attracted to the pheromone and then mating takes place.

A. Assertion and reason are correct but not related

B. Assertion and reason are incorrect but related

C. Assertion and reason are correct but related

D. Assertion and reason are incorrect but
not related

Answer:



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38. What is family in classification?



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39. Differentiate between elastic fibres and elastic connective tissue.



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40. Write short notes on Rh blood group.



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41. What forces promote Glomerular filtration?

What forces opposes them? What is meant by

net filtration pressure?



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42. What is acromion?



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43. Why flatworms are called acoelomates?



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44. Write short notes on the sense organs of cockroach



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45. Dead space is



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46. Resistance in the airways is typically low.

Why? Give two reasons.



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47. What is ganglia?



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48. What is corpus callosum?



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49. What is infundibulum?



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50. Which is dioecious?



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51. Answer briefly:

(a) Why are villi present in the intestine and not in the stomach?

(b) How does pepsinogen change into its active form?

(c) What are the basic layers of the wall of

alimentary canal?

(d) How does bile help in the digestion of fats?



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52. Bile juice contains no digestive enzymes , yet it is important for digestion. Why ?



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53. Write a short note on Haemodialysis.



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54. Explain the method of removal of toxic urea from kidney failure patients. Provide a diagram to explain it.



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55. Write the classification of connective tissue and their functions.



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56. Explain the life cycle of *Lampito mauritti*



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57. Write the advantages of vermicomposting.



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58. Explain the structure of Bee comb with a neat diagram.



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