



BIOLOGY

BOOKS - SARAS PUBLICATION

MODEL QUESTION PAPER-9

Exercise

1. Which one of the following statement about virus is correct?

- A. Possess their own metabolic system
- B. They are facultative parasites
- C. They contain DNA or RNA
- D. Enzymes are present

Answer:



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2. Algae which form motile colony is

- A. Volvox
- B. Nostoc
- C. Spirogyra
- D. Chlamydomonas

Answer:

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3. The term anthesis is used for

- A. Opening of flower
- B. Formation of anther
- C. Falling of flower

D. Drying of flower

Answer:



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4. Phylogenetic classification is the most favoured classification because it reflects

- A. Comparative Anatomy
- B. Number of flowers produced
- C. Comparative cytology
- D. Evolutionary relationships

Answer:



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5. The most basic amino acid is

- A. Arginine
- B. Histidine
- C. Glycine
- D. Glutamine

Answer:



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6. Stomata of a plant open due to

- A. Influx of K^+
- B. Efflux K^+
- C. Influx of Cl^-
- D. Influx of OH^-

Answer:



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7. Who coined the term hydroponics ?

- A. Julius Von Sachs
- B. William Frederick Goerick
- C. Liebig
- D. Wood word

Answer:



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8. Which gymnosperm yields the resin Canada balsma and what is its use?



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9. Write the similarities and differences between

Fusiform and Napiform root

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

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11. Why the cells of sclerenchyma and tracheids become dead?

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12. Define lenticel.

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13. Write the simple equation of photosynthesis as given by Van Neil.

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14. Why do farmers plant leguminous crops in crop rotations/mixed cropping?

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15. Define - dichotomous key.

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16. Differentiate between mitosis and meiosis.

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17. Explain the structure and function of different types of RNA.



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18. What is transition reaction?



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19. What are the five major groups of plant hormones?



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20. Write the differences between Banyan and silk cotton



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21. Define conduplicate ptyxis.



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22. Can mangrove trees grow in salt water? Explain.



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23. Explain the insectivorous mode of nutrition in angiosperms?



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24. What is the name of alternate way of glucose breakdown ? Explain the process involved in it.



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25. Describe an experiment to measure the growth of a plant.



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26. What is the role of mitochondria in evolution?



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27. Write the characteristic features of DNA.



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28. Which of the following is an egg laying mammal?

A. Delphinus

B. Macropus

C. Ornithorhynchus

D. Equus

Answer:



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29. Which of the following is an egg laying mammal?

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Answer:

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30. Select the correct sequence

A.

$Mo \leq \underline{ce}s \rightarrow Tissues \rightarrow Cells \rightarrow Organsystems \rightarrow or\ gans \rightarrow$

B.

Mo ≤ ces → cells → Tissues → Organs → or gansystem → or

C.

Cells → mo ≤ ces → Organs → Tissues → Organsystems → or

D.

Organisms → Organs → Organsystem → cells → Tissues → M

Answer:



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31. In frog, the finger like folds of an intestine is

A. Pyloric constriction

B. Villi

C. Sphincter

D. Microvilli

Answer:



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32. Which of the following converts proteins into peptones?

- A. Lipase
- B. Amylase
- C. Trypsin
- D. Peptidase

Answer:



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33. Make the correct pairs.



A. P-ii , Q-iv , R -i , S-iii

B. P-iii, Q-ii, R-iv, S-i

C. P-ii, Q-iv, R-iii, S-i

D. P-iii , Q-iv , R -i , S -ii

Answer:



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34. Erythro blastosis foetalis is due to the distruction of

A. Foetal RBCs

B. Foetus suffers from atherosclerosis

C. Foetal WBCs

D. Foetus suffers from minamata

Answer:



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35. What are the water-permeable channels of collecting duct called as?

- A. Aquaporins
- B. Calyces
- C. Peritubular capillaries
- D. Hyaline

Answer:



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36. The thin filament of muscle fibre is made up of

- A. Myosin
- B. Actin
- C. Neuromyosin

D. Glycogen

Answer:



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37. What is Binomial Nomenclature?



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38. Why are spongin and spicules important to a sponge?



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39. Write short notes on Skeletal muscle.



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40. The rate of breathing in aquatic animals is faster than the terrestrial animals. Give reason.



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41. Name and label the given diagram to show A, B, C, D, E, F and G



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42. Define renal calculi



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43. Write the characteristics that contributes to the success of reptiles on land.



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44. What is anal cerci?



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45. Differentiate between tergum and a sternum.



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46. Write notes on chylomicrons?



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47. What is Henle's loop?



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48. Where is it located?



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49. What is 'accommodation of the human eye'?



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50. What is meant by composite fish culture?



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51. Describe the mechanism by which the human heart beat is initiated and controlled.



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52. Which is the largest, longest and strongest bone in the human body?

Explain its structure.

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

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54. Describe the bones.

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55. Write notes on oxygen dissociation curve.

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56. Describe the process of rearing of silkworms?



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