



BIOLOGY

BOOKS - SARAS PUBLICATION

MODEL QUESTION PAPER -6

Exercise

1. When the root is thick and fleshy, but does not take a definite shape, it said to be _____

A. Nodulose root

B. Tubercular root

C. Moniliform root

D. Fasciculated root

Answer:



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2. The correct sequence in cell cycle is

A. S-M-G1-G2

B. S-G1-G2-M

C. G1-S-G2-M

D. M-G-G2-S

Answer:



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3. Which of the following bases is not present in DNA

A. Adenine

B. Thymine

C. Cytosine

D. Uracil

Answer:



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4. Consider the following statements. In spring season vascular cambium

- i. is less active
- ii. Produces a large number of xylary elements
- iii. Forms vessels with wide cavities of these.

A. (i) is correct but (ii) and (iii) are not correct

B. (i) is not correct but (ii) and (iii) are correct

C. (i) and (ii) are correct but (iii) is not correct

D. (i) and (ii) are not correct but (iii) is correct.

Answer:



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5. Identify the correct statement (i) Iron is an essential element for the synthesis of chlorophyll and carotenoids (ii) Magnesium is essential for binding of ribosomal sub units (iii) Phosphorus is required by the plants in greatest amount (iv) Calcium maintains turgidity and osmotic potential of the cell

A. i,ii are correct

B. iii,iv are correct

C. i only correct

D. all are correct

Answer:



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6. Which of the following is a flowering plant with nodules containing filamentous nitrogen fixing micro-organisms?

A. *Crotalaria juncea*

B. *Cycas revoluta*

C. *Cicer arietinum*

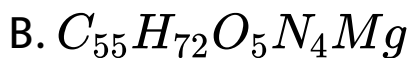
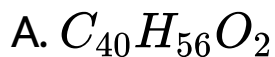
D. *Casuarina equisetifolia*

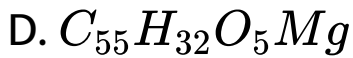
Answer:



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7. The molecular formula of water is ____.





Answer:



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8. Name the condition of a seed fails to germinate in suitable environment.

A. Viability

B. Seed dormancy

C. Impaction

D. Stratification

Answer:



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9. Define signal transduction.



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10. What is plectostele? Give example.



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11. Give the floral characters of *Clitoria ternatea*.



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12. What is meant by xylem fibres?



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13. What are hydathodes?



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14. Respiratory quotient is zero in succulent plants. Why ?



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15. Write notes on ovule



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16. Describe the origin of eukaryotes



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17. Write about proteins



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18. A transverse section of the trunk of a tree shows concentric rings which are known as

growth rings . How are these rings formed ?

What are the significance of these rings ?



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19. Explain the different types of placentation with example?



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20. Draw the ultra structure of plant cell.



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21. What is the role of national gardens in conserving biodiversity-discuss



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22. How is cell division activated?



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23. What are breathing roots? Give examples.



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24. Define spike inflorescence with examples.



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25. Write the physiological effect of Cytokinins.



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26. When there is plenty of light and higher concentration of O_2 , what kind of pathway does the plant undergo? Analyse the reasons.



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27. Write notes on osteosclereids.



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28. Describe activated diffusion theory.



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29. Difference between plant and animal cell.



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30. Define polysaccharides



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31. Every unit of classification regardless of its rank is

A. Taxon

B. Variety

C. Species

D. Strain

Answer:



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32. How many species are in the class Insecta?

- A. 2 - 8 million
- B. 2 - 10 million
- C. 8 - 10 million
- D. 6 - 8 million

Answer:



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33. Choose the wrong statement among the following:

A. In earthworm, a single male genital pore is present.

B. Setae help in locomotion of earthworms.

C. Muscular layer in the body wall of earthworm is made up of only circular muscles.

D. Typhlosole is part of the intestine of earthworm.

Answer:



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34. Brunner's glands are seen in the _____

- A. The wall of the duodenum
- B. The wall of the stomach
- C. The wall of the oesophagus

D. The wall of the ileum

Answer:



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35. Which one of the following blood cells is involved in antibody production?

A. B-cell

B. T-cell

C. RBCs

D. Neutrophils

Answer:



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36. Concentration of urine depends upon which part of the nephron

A. Bowman's capsule

B. Length of Henle's loop

C. P.C.T

D. Network of capillaries arising from glomerulus.

Answer:



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37. Which channel drains out the excess of aqueous humor at the junction of sclera and the cornea.

A. Canal of Schlemm

B. Choroid

C. Intraocular pressure

D. None

Answer:



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38. Find out the wrong statement related with growth hormone.

A. It stimulates cartilage formation

B. It releases fatty acid from adipose tissue.

C. It increases glucose utilization in the cells.

D. It stimulates the carbohydrate synthesis.

Answer:



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39. Some epithelia are pseudostratified. What does this mean?



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40. What is expiration?



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41. How does an isotonic contraction take place?



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42. What is biological diversity?



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43. What is segmentation?



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44. List the chemical changes that starch molecule undergoes from the time it reaches the small intestine.



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45. What characteristics are used to identify the earthworms?



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46. What is nictitating membrane in frog?



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47. Distinguish between open and closed circulation.





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48. Define ammonites.



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49. What is metaphysics?



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50. List out the hormones secreted by posterior pituitary gland?



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51. Name two cultivable fishes?



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52. Explain the transport of carbon-dioxide in blood.



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53. Write notes on triploblastic animals.



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54. Explain the digestive system of earthworm.



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55. Write the functions of skeletal system.



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56. Difference between Oestrogen and Progesterone



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57. Write notes on pepti culcer.



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