



BIOLOGY

BOOKS - UNITED BOOK HOUSE

MODEL PAPER 7

Exercise

1. The respiratory medium flows unidirectionally over the respiratory surface in the gas-exchange systems. Of

A. frogs

B. insects

C. mammals

D. birds

Answer:



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2. O_2 in the air diffuses across__ as it follows its partial pressure gradient into the human body.

A. alveolar sacs

B. pleuralsacs

C. a moist respiratory surface

D. bth (a) and (c)

Answer:



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3. The functional unit of kidney where urine is actually produced is the

A. bladder

B. nephron

C. neurone

D. glomerulus.

Answer:



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4. What will be the nature of sugar solution if the cell of an epidermal peel of rhoeo shows plasmolysis

A. Hydrophobic

B. Hypertonic

C. Isotonic

D. Hypotonic

Answer:



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5. Endosmosis of water occurs when in comparison with outer solution, the water potential of cell sap is

A. Higher

B. Lower

C. Equal

D. None of these

Answer:



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6. If alcohol treated cell is kept in Hypertonic solution

A. Burst

B. Plasmolysed

C. Remains same

D. None

Answer:



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7. The osmotic potential of a solution is denoted by the symbol

A. ψ_x

B. Δ_y

C. ψ_p

D. ψ_s

Answer:



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8. The most abundant material in the plant cell wall is

A. Lignin

B. Hemicellulose

C. Starch

D. Cellulose.

Answer:



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9. Cell wall of higher plants can be stained by

A. Methylene blue

B. Sudan V

C. Zinc chloride

D. Phloroglucin

Answer:



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10. Hela cell are

A. cat tissue cells

B. mouse tissue cells

C. human cancer cell

D. monkey tissue cell

Answer:



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11. Most of our cells are surrounded by

A. air

B. blood

C. interstitial fluid

D. pure water

Answer:



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12. Lamina propia is related with

A. heart

B. brain

C. liver

D. intestine

Answer:



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13. Place of keeping and studying dry plants is

A. Museum

B. Vasculum

C. Herbarium

D. Arboretum.

Answer:



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14. Who wrote 'Species Plantarum' and provided a basis for classification of plants?

A. Robert Hooke

B. Leeuwenhoek

C. Linnaeus

D. Darwin

Answer:



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15. The open circulatory system is found in

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16. State briefly about the formation of male gametophytic development in a flowering plant with a proper diagram. Give an example of malacophilous flower.

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17. Give the classification of enzymes.



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18. What is meant by Pancreatic juice? Write down the composition and function of the Pancreatic juice.



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19. Write position and function of kupffer cells.



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20. How many molecules of O_2 can be transported by one Hemoglobin molecules?



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21. What is biodiversity conservation? Describe with example-In-situ and Ex-situ conservation.



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22. Define with example : oncovirus.



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23. What are coenzymes?



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24. What is competitive inhibition?



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25. What are the components of vascular bundles?



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26. What do you mean by Hydrosere?



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27. Write two functions of golgi body?



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28. Write the differences with example of endocrine and exocrine gland.



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29. What is transpiration?



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30. Mention the differences between Bacteriophage T_2 and TMV



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31. Mention three modification of leaf with example. Mention two differences between the internal structure of monocot and dicot stems.



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32. What are structural features of phloem parenchyma?



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33. State the functions of stipules.



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34. Why mitochondria are called power houses of cell?



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35. Why plastids are also known as self-replicating organelles?



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36. Write the functions of proenzymes and anti enzymes.



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37. How decarboxylation occurs during aerobic respiration?



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38. What do you mean by ETC?



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39. State how photosynthesis and cellular respirations are interlinked.





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40. State the functions of FSH, LH & ICSH.



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41. State about hyperaction of TSH in human.



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42. Write about the function of adrenal gland.





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43. Explain the lock and key hypothesis is of enzyme action.



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44. Describe the clover leaf structure of tRNA with a figure.



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45. Explain the different waves of ECG.



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46. Draw and label the internal structure of Heart.



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47. Give a brief account of pattern of plant growth and development as influence by temperature.



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