



BIOLOGY

BOOKS - UNITED BOOK HOUSE

MODEL PAPER 13

Exercise

1. The response toward a stimulus is said to be

A. negative

B. avoidance

C. positive

D. none of them

Answer:



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2. The self-adjusting balance of life functions, such as maintaining temperature are referred to as

A. metabolism

B. homeostasis

C. adaptation

D. none of them

Answer:



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3. In which of the following whorled phyllotaxy is present?

A. Calotropis

B. Nerium

C. Guava

D. Rose

Answer:



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4. What is the nature of stipule in Gardenia plant

A. Adnate

B. Interpetiolar

C. Intrapetiolar

D. Ochreate

Answer:



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5. Embryonic connective tissue is derived from

A. ectoderm

B. endoderm

C. mesenchyma

D. mesogloea

Answer:



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6. Enzyme that convert fats into carbohydrate occurs in

A. Glyoxysomes

B. Golgi apparatus

C. Mitochondria

D. Cytoplasm

Answer:



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7. Enzyme amylase belongs to category

A. Oxidoreductase

B. Transferases

C. Hydrolases

D. Isomerases.

Answer:



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8. Which one of the following is correctly matched?

A. potassium-readily immobilisation

B. bakanae disease of rice seedings-F Skoog

C. Passive transport of nutrients-ATP

D. apoplast-plasmodesmata

Answer:



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9. In the process of osmosis

A. Both protoplasm and cell wall act as
single layer

B. Only protoplast act as a single layer

C. Only cell membrane act as single laye

D. None of these.

Answer:



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10. The archaebacteria occurring in marshes, swamps, rumens of cattles, gobar gas plants are

1. methanogens

2. ammonifying bacteria

3. thermoacidophiles

4. denitrifying bacteria

A. oxidize ammonia to nitrates

B. convert free nitrogen to nitrogenous
compounds

C. convert proteins to free nitrogen

D. reduce nitrates to free nitrogen.

Answer:



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11. Mineral known to be required in large amounts for plant growth include--

A. magnesium, sulphur, iron, zinc

B. phosphorus, potassium, sulphur, calcium

C. calcium, magnesium, manganese, copper

D. potassium, phosphorus, selenium, boron

Answer:



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12. Most of the digestion in human G.I. tract takes place in

A. trachea

B. small intestine

C. oesophagus

D. stomach

Answer:



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13. The acidic region of G.I. tract is

A. large intestine

B. mouth

C. stomach

D. small-intestine.

Answer:



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14. Which of the following is not a sympathetic effect?

A. increased blood pressure

B. increased heart rate

C. increased constriction of blood vessels

D. increased storage of glycogen from glucose.

Answer:



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15. Fill in the blanks:

The Endarch type of xylem is present in all_____



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16. Fill in the blanks:

The roots possess the vascular bundles which are_____.



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17. Give one function of Rhizobium



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18. Give two examples of long dayplant



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19. What is biopiracy? Give example. What is patent?



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20. Write true or false:

Vasopresin is linked with the concentration of urine.



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21. Explain regeneration process in Planaria.

Describe how artificial vegetative generation occurs through grafting.



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22. Define biodiversity.



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23. Concentric vascular bundles are



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24. Define apical meristem.



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25. Write two functions of golgi body?



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26. Mention the mechanisms involved in ascent of sap.



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27. What do you mean by nitrification and denitrification?



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28. What is micturition?



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29. Briefly describe about the anternate food sources.



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30. Write the differences between α , β & γ diversity. \



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31. Briefly state about different between protostele and siphonostele.



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32. What are bulbils and bud thorns?



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33. 2 difference between cell membrane and cell wall



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34. State the difference:

Chloroplast and amyloplast





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35. State the difference:

Starch grains and zymogen granules



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36. Describe the structure of the nucleus of eukaryotic cell with labelled diagram.



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37. Show the differences between phagocytosis and pinocytosis.



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38. Write about nitrogen fixation during nitrogen cycle.



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39. Why do plants need potassium and magnesium?



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40. Write the significance of glycolysis in respiration



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41. What are the different accessory organs?
State their functions.



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42. What is diabetes insipidus? State its cause and symptoms.



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43. What is peristalsis? Write its function.



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44. Write about the ultrastructure of plastid with a diagram.





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45. Describe the structure of cell membrane with a diagram.



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46. Describe role of magnesium in life of a green plant and explain how you detect their deficiency?



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47. Give an account of trace elements , give example



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48. Describe the composition and functions of saliva



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