



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### MODLE PAPER 11

#### Exercise

1. Cycas is

A. Dioecious

B. monoecious

C. Hemaphrodite

D. None of them

**Answer:**



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2. Organised female cone is absent in

A. Pinus

B. Cycas

C. Taxus

D. None of them

**Answer:**



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**3.** Which is essential for the growth of root tip?

A. Xerophytes

B. Mesophytes

C. Epiphytes

D. Hydrophytes

**Answer:**



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**4.** How many times a cell has to divide mitotically to produce 128 cells ?

A. 100

B. 50

C. 99

D. 25

**Answer:**



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5. Cucurbits and papaya plants bear staminate and pistillate flowers. Mention the categories they are put under separately on the basis of the type of flowers they bear.

- A. Gynodioecious
- B. Gymnomonecious
- C. Polygamodioecious
- D. Polygamonoecious

**Answer:**



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**6. Seed germination is initiated by**

- A. Absorption of water

B. Starch synthesis

C. Fat synthesis

D. Evolution of heat

**Answer:**



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7. Active  $K^+$  exchange mechanism of opening and closing of stomata was given by

A. Khorana

B. Scarth

C. Levitt

D. Darwin

**Answer:**



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**8.** A fall in ascorbic acid content in plants is the result of deficiency of

A. nitrogen



B. molybdenum

C. zinc

D. carbon

**Answer:**



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9. Absorption of water and calcium is increased by

A. manganese

B. zinc

C. boron

D. copper

**Answer:**



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**10.** The carrier mediated cotransport in which a solute is actively transported across a membrane against the gradient of electrochemical potential by coupling the

uphill transport of one solute to the downhill transport of another in an example of

- A. Require protein
- B. Does not require protein
- C. Requires ATP
- D. Does not require ATP

**Answer:**



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**11.** Fluid mosaic model exhibits amphipathy because of

A. Glycoproteins

B. Phospholipids

C. Lipids

D. Glycolipids

**Answer:**



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12. Carnasial teeth (pointed molars) would most likely be part of the dentition of a

A. cow

B. hawk

C. lion

D. human

**Answer:**



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**13.** The process by which glucose is formed from noncarbohydrate compounds is called

A. glycogenolysis

B. glycogenesis

C. glycolysis

D. gluconeogenesis.

**Answer:**



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14. State about the three stage process of urine formation.

A. heart rate

B. blood concentration

C. blood pressure

D. emotions.

**Answer:**



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**15.** What is calyptrogen?



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**16.** Write true or false:-

Secondary growth in dicots occurs by the activity of lateral meristem.



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**17.** Define imbibition State its significance.





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**18.** Name two bile salts.



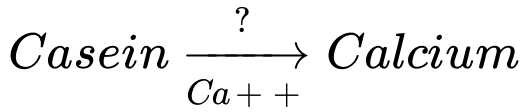
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**19.** Which enzyme helps to digest the fat in humans?



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20. Fill up the blanks



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21. What is taxonomic hierarchy.



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22. Write two importances of museums of Natural Sciences.



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**23. What is lenticel?**



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**24. Why fatty acids are insoluble in water?**



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**25. What is mitotic apparatus?**



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**26.** Write two differences between transpiration and Evaporation.



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**27.** Write position and function of kupffer cells.



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**28.** Write the function of erepsin enzyme.



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**29.** Distinguish between open and closed vascular bundles with example.



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**30.** Cork cambium forms tissues that form cork-State whether it is true or not with

explanations.



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**31.** Write the importance of binomial nomenclature.



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**32.** What do you mean by biosafety & biopiracy?



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**33.** Why mitochondria are called power houses of cell?



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**34.** Why ribosome is called protein factory of a cell?



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**35.** What do you mean by Michaelis-menthon constant ( $K_m$ )?



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**36.** How mycorrhizal association is helpful in absorption of water and minerals in plants.



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**37.** Write a short note on nitrification occurred during nitrogen cycle.



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**38.** Why respiration is called a catabolic process?



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**39.** How fat is digested in human alimentary canal?



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**40.** Write composition of pancreatic juice present in alimentary canal.



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**41.** What are the events of cardiac cycle.

Describe the ventricular events.



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**42.** Explain the different waves of ECG.



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**43.** What is thalamus? Mention its position and state the functions of thalamus.



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**44.** What is hypothalamus?



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**45.** Explain in detail the  $K^+$  exchange hypothesis as proposed by Levitt.



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**46.** Discuss the structure and function of chloroplast.



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**47.** Give the structure and function of nucleus.



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