



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### MODEL PAPER 12

#### Exercise

1. Which one is living fossil?

A. Selaginella

B. Pinus

C. Cycas

D. None of them

**Answer:**



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2. Gymnosperms are called naked seed plants

because they lack

A. Endosperm

B. Testa

C. Ovary wall

D. Cotyledons

**Answer:**



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**3. Stem may function in**

A. Protection

B. Spread of branches

C. Storage, support and vegetative propagation

D. All of the above.

**Answer:**



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4. Number of chambers present in the tubular heart of cockroach.

A. 7

B. 9

C. 13

D. 14

**Answer:**



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5. Deficiency symptoms of nitrogen and potassium are visible first in

A. Senescent leaves

B. Young leaves

C. roots

D. buds

**Answer:**



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6. Excess of manganese inhibits the translocation of - to the shoot apex-

A. Calcium

B. Potassium

C. Iron

D. Magnesium

**Answer:**



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7. Which one is example of subaerial modification of stem

A. Asparagus

B. Polyalthia

C. Tridax

D. Oxalis

**Answer:**



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**8.** Auxanometer is used to measure.

A. rate of photosynthesis

B. rate of plant growth



C. height of plant

D. wind velocity

**Answer:**



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**9. Kinetin was first isolated from**

A. Immature corn seed

B. DNA of coconut milk

C. DNA of herring sperm.

D. DNA of monkey's liver.

**Answer:**



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**10.** Which cell organelle reduces the number of other organelle?

A. Oxysome

B. Lysosome

C. Mitochondria

D. None of these

**Answer:**



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**11. Thylakoid occurs inside**

A. Mitochondira

B. Chloroplast

C. Golgi appartus

D. ER

**Answer:**



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**12.** After surgical removal of an infected gall bladder, a person must be especially careful to restrict the dietary intake of

A. protein

B. fat

C. sugar

D. starch

**Answer:**



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**13.** Part of stomach which open into duodenum is

A. trypsin

B. chymotrypsin

C. pepsin

D. secretin.

**Answer:**



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**14.** The maximum amount of electrolytes and water (70-80 percent) from the glomerular filtrate is reabsorbed in which part of the nephron?

A. filtration of blood

B. maintenance of glomerular filtration rate

C. selective reabsorption of glucose, amino acid NaCl and water

D. reabsorption of salts only.

**Answer:**



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**15.** Where arcuate artery is found.



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**16.** What is metaxylem?



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**17.** Name the pigment found in root nodules of legumious plant.



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**18.** What type of tissue is the main component of teeth?



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**19.** Give one example of opn circulatory system



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**20.** What term is used for the muscle which draw a bone away from the body midline?



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21. What do you mean by five kingdom classificatoin?



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22. What is PPLO?



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23. What is hemicycle flower? Give example



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**24.** Why saturated fatty acid have higher melting point?



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**25.** Why meiosis is known as hetero typic division?



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**26.** What is EMP pathway?



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**27.** What is tidal volume? Mention its value.



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**28.** Explain why trachea does not collapse?



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**29.** Write differences between phylloclade and phyllode with example



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**30.** Give three functions of stem of plants.



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**31.** Define: Aseticeation, Placentation, zygomorphic



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**32.** Write differences between autotrophs and heterotrophs.



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**33.** Write any three features of Monera.



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**34.** State three characteristics of enzyme.



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**35.** Describe the 'induced fit' model of enzyme action. What do you mean by allosteric enzyme?



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**36.** Describe briefly the features of leptotene of Meiosis I with diagram.



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**37.** What do you mean by protoplasmic and floating respiration.



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**38.** In Kreb's cycle





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



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**40.** Mention the composition of salivary juice present in alimentary canal.



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**41.** What are the junctional tissues of heart?

State their position in heart.



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**42.** Compare the structure of artery and vein.



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**43.** Define :

Mean arterial blood pressure





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**44.** Define :

Casual blood presure



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**45.** What happens when Arterioles are constricted and elasticity of blood vessels is decreased?



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**46.** What is autonomic nervous system?

Mention the characteristics of autonomic nervous system.



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**47.** What are the conditions necessary for fixation of atmospheric nitrogen by Rhizobium? What is their role in  $N_2$  - fixation?



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**48.** What are the steps involved in formation of a root nodule?



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**49.** What are lipids? Mention their importance to the living beings?



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