



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### MODEL PAPER 10

#### Exercise

1. What are called the algal and fungal parts of Lichess?

A. BIOcobiont

B. mycobiont

C. both (a) and (c )

D. none of these

**Answer:**



**Watch Video Solution**

**2. Virus have**

A. DNA enclosed in a protein coat

B. Prokaryotic nucleus

C. Single chromosome

D. Both DNA and RNA

**Answer:**



**Watch Video Solution**

**3.** In mammals, histamine is secreted by

A. Fibroblast

B. Histiocyte

C. Lymphocytes

D. Mast cell

**Answer:**



**Watch Video Solution**

4. Which of the following is know as tissue membrane?

A. serous membrane

B. cutaneous membrane

C. mucous membrane

D. all of these

**Answer:**



**Watch Video Solution**

5. In *Periplaneta americana* hepatic caeca is derived from

A. mid gut

B. oesophagus

C. crop

D. ileum

**Answer:**



**Watch Video Solution**

6. Watson and Crick are known for their discovery that DNA is

A. Single stranded

B. Double stranded

C. having deoxyribose only

D. Template for r-RNA synthesis

**Answer:**



**Watch Video Solution**

7. Casein present in milk is

A. Fat

B. Carbohydrate

C. Protein

D. Bacterium

**Answer:**



**Watch Video Solution**

**8. Photolysis of water is associated with**

A. PS I

B. PS II

C. cyterb

D. quinone



**Answer:**



**Watch Video Solution**

**9. Chlorophyll 'a' is present in**

A. all photosynthetic eukaryotes as well as prokaryotes

B. all plants except fungi

C. all higher plants carrying out photosynthesis

D. all  $O_2$  evolving photosynthetic organism

**Answer:**



**Watch Video Solution**

**10.** Indole-3-acetic acid is chemically similar to the amino acid-

A. Proline

B. Methionine

C. Tryptophan

## D. Phenylalanine

**Answer:**



**Watch Video Solution**

**11.** The synthetic 'rooting powder' commonly used by farmers to induce the formation of adventitious roots in cutting contain

A. A mixture of IBA and NAA

B. 2,4D

C. A mixture of IAA and IAN

D. ABA

**Answer:**



**Watch Video Solution**

**12.** Abnormal heart sound (murmur) is a defect of the

A. SA-node

B. valves

C. AV-node

D. chordae tendineae

**Answer:**



**Watch Video Solution**

**13.** Adrenaline directly affects on--

A. SA-node

B.  $\beta$  – cells of  $\alpha$   $\geq$  rhans

C. dorsal root of spinal cord

D. epithelial cell of stomach.

**Answer:**



**Watch Video Solution**

**14.** The volume of blood each ventricle pumps out during a cardiac cycle is about

A. 1200 ml

B. 70 ml

C. 5000 ml

D. 40 ml

**Answer:**



**Watch Video Solution**

**15.** What is natural pace maker?



**Watch Video Solution**

**16.** Urea is formed from ammonia and  $CO_2$  in

-----



**Watch Video Solution**

**17. What is haemodialysis?**



**Watch Video Solution**

**18. What is water potential?**



**Watch Video Solution**



**19.** Which element of gastric juice acts as an antiseptic -



**Watch Video Solution**

**20.** Write true or false:

A tendon muscles always joints muscle to muscles always joints muscle to muscle.



**Watch Video Solution**

**21.** Name two exclusive marine phylum mentioning the characters each.



**Watch Video Solution**

**22.** Give the scientific name of one hemichordates.



**Watch Video Solution**

**23.** What is brown fat?



**Watch Video Solution**

**24.** What do you mean by false epithelium?



**Watch Video Solution**

**25.** Why lysosomes are called suicidal bag in a cell?



**Watch Video Solution**

**26.** Write four factors essential for water potential.



**Watch Video Solution**

**27.** Represent schematically the reactions of the Krebs ' cycle. Why Krebs' cycle is called an Amphibolic Pathway?



**Watch Video Solution**

**28.** What do you mean by dialysis of kidney?



**Watch Video Solution**

**29.** What are the major differences between mammals and reptiles?



**Watch Video Solution**

**30.** What are the general characteristics of molluscs?



[Watch Video Solution](#)

**31.** State three differences between sclerenchyma fibre and sclereid.



[Watch Video Solution](#)

**32.** Give three differences between apical and lateral meristem.



[Watch Video Solution](#)

**33.** "Growth of long bones are bidirectinal" -  
Explain.



**Watch Video Solution**

**34.** What are the different steps of mitosis



**Watch Video Solution**

**35.** What is oxidative phosphorylation?



**Watch Video Solution**

**36.** State the role of centrosome in cell division.



**Watch Video Solution**

**37.** What is chlorosis? How it differs from albino plants?



**Watch Video Solution**



**38.** What do you mean by Hill reaction and Blackman's reaction?



**Watch Video Solution**

**39.** Photosynthesis does not occur in roots justify.



**Watch Video Solution**

**40.** Name the accessory excretory organs of human. Write the main excretory products of them.



**Watch Video Solution**

**41.** Write the functions of PCT and DCT of renal tubule.



**Watch Video Solution**

**42.** Write the anatomical divisions of cerebrum.



**Watch Video Solution**

**43.** What do you understand by cell cycle? Describe briefly all those events that occur during interphase of cell cycle that prepare the cell for nuclear division.



**Watch Video Solution**

**44.** Anaphase-I of meiosis differ from anaphase of mitosis in one essential respect. Describe differences between them .



**Watch Video Solution**

**45.** Anaphase-I of meiosis differ from anaphase of mitosis in one essential respect. Describe differences between them .



**Watch Video Solution**

**46.** What are the main steps in aerobic respiration? Where does it take place?



**Watch Video Solution**

**47.** Give the schematic representation of an overall view of Krebs cycle.



**Watch Video Solution**

**48.** Describe the sequences of events of chemical changes during muscular

contractions.



**Watch Video Solution**