



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### MODEL PAPER 5

#### Exercise

1. Monocondylic skull is found in

A. Human

B. Pigeon

C. Frog

D. Fish

**Answer:**



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2. The largest living bird is

A. Emu

B. kiwi

C. Ostrich

D. Albatross.

**Answer:**



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**3. Root modification is**

A. Permanent internal changes in roots

B. Temporary internal changes in roots

C. Permanent structural changes in roots

D. Temporary structural changes in roots.

**Answer:**



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4. Asafoetida is obtained from *Ferula* *asasfoetida* form

A. Stem

B. Root

C. Leaf

D. Flower.

**Answer:**



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**5. Mast cell of connective tissue contain.**

A. Heparin and oxytosin

B. Serotonin and melanin

C. Heparin and Histamine

D. ADH and relaxin.

**Answer:**



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6.  $C_{40}H_{56}$  is the

- A. xanthophyll
- B. Chl-b
- C. carotene
- D. anthocyanin

**Answer:**



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7. An illuminated plant is provided with 0.03%  $CO_2$ . The plant will

A. die

B. just survive

C. show normal photosynthesis

D. have reduced respiration.

**Answer:**



8. The main substrate for photorespiration is

A. glycolic acid

B.  $H_2O_2$

C. serine

D. phosphoglyceric acid.

**Answer:**



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9. Which one of the following hormone causes dwarf bean plants to grow to the same height as tall varieties

A. Auxin

B. Gibberellin

C. Cytokinin

D. Ethylene.

**Answer:**



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10. Which is not a lipid?

A. Wax

B. Sterol

C. Glycerol

D. Lecithin.

**Answer:**



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**11. Zygotic meiosis can be traced in:**

1. Funaria

2. Dryopteris

3. Puccinia

4. Chlamydomonas

A. Pinus

B. Marchantia

C. Chlamydomonas

D. Dryopteris.

**Answer:**



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12. Phragmoplast is the precursor of

A. 1) Leucoplast

B. 2) Chloroplast

C. 3) Chromoplast

D. 4) Cell plate

**Answer:**



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

- A. ascending limb of loop of Henle
- B. proximal convoluted tubule
- C. distal convoluted tubule
- D. descending limb of loop Henle.

**Answer:**



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

0.9% NaCl causes plasmolysis of red blood corpuscles.



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**15.** Which fraction of water is available to plants for absorption by roots.



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**16.** What is Gnotobiosis



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**17.** Fill in the blanks:-

Glucagon has an antagonistic effect of that of

\_\_\_\_\_.



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**18.** What is synovial fluid?



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**19.** What is the functional advantages of myelination in nerve fibre.



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**20.** What do you mean by plasmodium plasmotomy?



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**21.** Write the nature of cell wall in diatoms.



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**22.** State one function of each : Dendrites and Nissl's granules.



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**23.** State one function of restriction endonuclease.





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**24.** What is kinetochore?



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**25.** Write two differences between internal and external respiration.



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**26.** What is apnoea?



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**27.** What is ECG?



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**28.** Write three differences between dicot & monocot stem.



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**29.** Why xylem and phloem are called complex tissues?



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**30.** Why blood is called modified liquid connective tissue?



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**31.** What is taxonomic hierarchy.



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**32.** Write the role of Botanical garden and zoological garden in species conservation.



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**33.** Write three differences between Deoxyribonucleotide and ribonucleotide.



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**34.** Write any three roles of lipid in living beings.



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**35.** Write three features of cell wall of plant.



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**36.** What do you mean by grand period of growth and sigmoid growth?



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**37.** What is Kranz anatomy? Write its advantages.



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**38.** How are the minerals absorbed by plants?



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**39.** Describe the digestion process in mouth cavity of human.



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



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**41.** Mention the factors controlling circulation of blood in the body.



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**42.** Mention the causes of unidirectional flow of blood in the body.



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**43.** Write down the functions of skeletal muscles.



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**44.** What is cerebellum? Name the BIOlogentic and anatomical divisions of cerebellum.



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**45.** Name the five main parts of brain. State the functions of medulla.



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**46.** With the help of a diagram show the mechanism of diffusion.



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**47.** Create a relationship between OP, TP and DPD.



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**48.** Mention characteristic features and chemical nature of enzymes.



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