



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### SCC QUESTION PAPER

#### Exercise

1. Historia Plantarum is a book written by

A. Theophrastus

B. Aristotle

C. Lamarck

D. Darwin

**Answer:**



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**2. Interfascicular develops from the cells of**

A. Xylem

B. Phloem

C. Cambium

D. Collenchyma.

**Answer:**



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3. Mention the type of evolution that has brought the similarity as seen in potato tuber and sweet potato.

A. leaf

B. root

C. flower

D. stem

**Answer:**



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**4. Phallic gland of cockroach mainly helps in**

A. Excretion

B. Growth

C. Formation of Spermatophore

D. Moulting.

**Answer:**



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5. Mitochondria are semiautonomous as they possess

A. DNA

B. DNA+RNA

C. DNA+RNA+Ribosomes

D. Protein

**Answer:**



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**6. Histone protein is synthesized in**

A.  $G_1$

B. S

C.  $G_2$

D. M

**Answer:**



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7. Describe in detail how ATP and *NADPH* are formed during photochemical reaction?

A. PS-I

B. PS-II

C. Calvin Cycle

D. pentose phosphate pathway

**Answer:**



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8.  $CO_2$  acceptor in  $C_3$  cycle is

A. OAA

B. RuBP

C. PEP

D. Malic Acid



**Answer:**



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**9. End product of anarobic respiration is**

- A. Lactic acid
- B. Ethyl alcohol
- C.  $CO_2$
- D. Both 'a' & 'b'

**Answer:**



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10. The first four carbon compound in Krebs cycle is

- A. Malic acid
- B. succinic acid
- C. fumaric acid
- D. Oxalo acetic acid

**Answer:**



11. Cholesterol is synthesized in

A. Brunner's glands

B. Liver

C. Spleen

D. Pancreas

**Answer:**



12. Agglutinogens are



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13. Read the statements with regard to frog.

Which of the statement(s) is/are correct and incorrect

A. The medulla oblongata passes out through foramen of Monro and continues into spinal cord

B. Vasa efferentia are 10 -12 in number that arise from testes

C. Ovaries have no functional connection with kidneys

D. Frogs are uricotellic

A. Pronephric

B. Glycoproteins

C. Phosphorproteins

D. Metanephric

**Answer:**



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14. Which ion is essential for muscle contraction?

A. Na

B. K

C. Ca

D. Cl.

**Answer:**



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**15.** The term taxonomy was coined by



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**16.** What is Stone cell?



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**17.** Give one EXAMPLE of Merocrine gland.



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**18.** Write down the full form of RUBISCO.



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



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**20.** What do you mean by renal calculi?



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**21.** State two rules of Binomial Nomenclature.



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**22.** State two importance of Botanical Garden.



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**23.** State two difference between Racemose & Cymose.



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**24.** State two difference of meiosis and mitosis



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**25.** Write down two unusual bases of t-RNA.



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**26.** State two difference between Photolysis and Glycolysis.



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27. What do you mean by double circulation?



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28. State the causes of gout and Myesthemia gravis.



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



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**30.** Explain = "All vertebrates are chordates  
limit all chordates are not vertebrates"? What  
is choanocytes?



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**31.** Explain different types of placentation with EXERCISE.



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**32.** State three differences between meristematic and permanent tissue.



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**33.** What is sarcomere?



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**34.** State three differences between Cilia and Flagella.



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**35.** What do you understand by the terms 'crossing over' and 'Chiasma'?



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**36.** Give the classification of enzymes.



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**37.** What do you mean by Electron Transport system and Alcohol Fermentation?



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**38.** Represent the 'Z' scheme of Photosynthesis with the help of word diagram.





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



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**40.** Represent protein digestion process through chart.



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**41.** Describe the sequences of events of chemical changes during muscular contractions.



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**42.** What do you mean by Stenohaline and Euryhaline example?



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**43.** What is diabetes insipidus? State its cause and symptoms.



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**44.** Describe the Ultra structure of mitochondria with diagram.



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**45.** State the characters of Zygotene and Diplotene. Explain the Lock & Key hypothesis of enzyme action.



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**46.** Show the  $C_3$  cycle with the help of word diagram. In which plant  $C_4$  cycle occur?



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**47.** Respresent Krebs cycle with the help of word diagram.



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**48.** Briefly describe events of ventricular diastole. State main difference between Marasmus and Kwashiorkor.



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**49.** What is effective filtration pressure? State the function of rennin. What do you mean by ball and socket joint?



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