

SEMESTER-ONE

BIOLOGY

Class X

Sample Paper—1

Max. Marks: 50

Time Allowed: 90 minutes

General Instructions:

- (i) This question paper consists of 45 questions in 5 sections.
- (ii) Section A consists of 10 Objective type questions carrying 1 mark each.
- (iii) Section B consists of 10 Fill in the blanks type questions carrying 1 mark each.
- (iv) Section C consists of 10 True or False statement type questions carrying 1 mark each.
- (v) Section D consists of 10 Very short answer type questions carrying 1 mark each.
- (vi) Section E consists of 5 Short answer type questions carrying 2 marks each.

Section A

Select and write one most appropriate option out of the four options given for each of the questions 1 – 10.

1. The branch of science that deals with the study of living things and life processes is called
 - (a) histology
 - (b) geology
 - (c) psychology
 - (d) biology
2. Botany is the study of
 - (a) plants
 - (b) animals
 - (c) living things
 - (d) non-living things

3. The following are all branches of biology except
 - (a) ecology
 - (b) cytology
 - (c) botany
 - (d) geology
4. The branch of biology that deals with the study of cells is called
 - (a) histology
 - (b) zoology
 - (c) cytology
 - (d) morphology
5. The branch of biology concerned with classification is called
 - (a) cytology
 - (b) taxonomy
 - (c) molecular biology
 - (d) genetics
6. Who introduced hierarchy of classification?
 - (a) Carolus Linnaeus
 - (b) Robert Brown
 - (c) R. H. Whittaker
 - (d) Carl Woese
7. Who proposed five Kingdoms of Classification?
 - (a) Carolus Linnaeus
 - (b) Robert Brown
 - (c) R. H. Whittaker
 - (d) Carl Woese
8. The segmented norms belong to the animal group.
 - (a) Platyhelminthes
 - (b) Aschelminthes
 - (c) Annelida
 - (d) Arthropoda
9. Hydra belongs to animal phylum
 - (a) Porifera
 - (b) Coelenterata
 - (c) Platyhelminthes
 - (d) Annelida
10. Human disease elephantiasis is caused by
 - (a) Wuchereria
 - (b) Ascaris
 - (c) Taenia
 - (d) Trichinella

Section B

Fill in the blanks with a suitable word for each of the questions 11 – 20.

11. The egg of _____ is largest cell.
12. Ribosomes are associated with the synthesis of _____ .
13. The cellular organelles often referred as suicide bags are _____ .
14. Cork cell posses on their walls that make them impervious to gases and water.
15. have tubular cells with perforated walls and are living in nature.
16. Bone possess a hard matrix composed of and

17. _____ beverages have been used in many societies for many purposes.
18. _____ is also the main place in your body where alcohol is broken down.
19. Fungi show _____ mode of nutrition.
20. Cell wall of fungi is made up of _____.

Section C

State whether the following statements are true or false for each of the questions 21–30.

21. Plant cells are bounded by a wall composed of cellulose.
22. *Amoeba* is a multicellular organism.
23. Epithelial tissues is protective tissue in animal body.
24. The lining of blood vessels, lung alveoli and kidney tubules are made up of epithelial tissue.
25. Different drugs have different dangers associated with them.
26. Alcohol is an illegal, sedative drug which changes the way we feel.
27. *Paramecium* is slipper shaped animal.
28. *Euglena* always feeds on tiny organisms like bacteria present in water.
29. Contractile vacuole in a helps in locomotion.
30. *Amoeba* moves with the help of pseudopodia.

Section D

Answer each of the questions 31 – 40.

31. Define the term 'Biology'.
32. Write two importances of studying biology.
33. Why do the living things need food?
34. What is the role of stomata in plants?
35. What is classification?
36. Define the term 'taxonomy'.
37. Give three importance of classification.
38. Explain Hierarchy of classification.
39. State that excessive alcohol consumption can cause liver damage.
40. Describe the effects of excessive marijuana consumption.

Section E

Answer each of the questions 41 – 45.

- 41.** Name some waste products excreted by animals.
- 42.** Write at least three safety rules followed in a laboratory.
- 43.** How does a healthy person acquired infection of AIDS?
- 44.** How can malaria be prevented?
- 45.** What are the ways of avoiding marijuana? Give three points.