

SEMESTER-TWO

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 process of shedding of exoskeleton periodically by arthropods for growth is called
 - (a) Metamorphosis
 - (b) Ecdysis
 - (c) Oviposition
 - (d) Copulation
2. A connecting link between phylum Annelida and Arthropoda is
 - (a) *Peripatus*
 - (b) *Pheretima*
 - (c) *Periplaneta*
 - (d) *Palamnaeus*

3. Vector of human disease sleeping sickness is
 - (a) *Anopheles* mosquito
 - (b) Housefly
 - (c) Tsetse fly
 - (d) *Aedes* mosquito
4. Most of the algae are
 - (a) Aquatic
 - (b) Epiphytic
 - (c) Terrestrial
 - (d) Alpine
5. One of the algae that can be used as food supplement even for space travellers is
 - (a) *Chlorella*
 - (b) *Spirogyra*
 - (c) *Ulothrix*
 - (d) *Volvox*
6. Moss plants are commonly found growing
 - (a) on day soil
 - (b) on dumb and shady places
 - (c) in sea water
 - (d) in rivers and canals
7. The ferns are usually found
 - (a) in shady, cool and moist places
 - (b) in dry climate
 - (c) in marshy places
 - (d) along with crop plant.
8. This is the broad, flat part of the leaf.
 - (a) Margin
 - (b) Leaf blade or lamina
 - (c) Veins
 - (d) Petiole
9. The collective name for all the stamens of a flower is
 - (a) anther
 - (b) androecium
 - (c) gynoecium
 - (d) microsoprangium
10. Which structure is considered the female reproductive part of a flowering plant?
 - (a) Stamen
 - (b) Petal
 - (c) Carpel
 - (d) Sepal

Section B

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

11. All arthropods are
12. Housefly belongs to class
13. lays its eggs in water.

14. Sugar synthesized during photosynthesis is stored as _____ is storage organs.
15. The dark reaction of photosynthesis is also called _____ .
16. The directional movements of whole organism in response of external stimuli is called _____.
17. _____ is the light dependent reaction of photosynthesis.
18. Five kingdom classification of living organisms is given by _____.
19. Basic smallest unit of classification is _____.
20. Prokaryotes are grouped in kingdom _____.

Section C

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

21. Mouthparts of female *Anopheles* mosquito are biting and chewing type.
22. Housefly have sponging type of mouthparts.
23. Arthropods are oviparous.
24. Algae belong to plant group called thallophyta.
25. Bryophytes have vascular tissue for transport of water and food.
26. The individual leaf segment of calyx is called sepal.
27. The underground part of the plant is called shoot system.
28. Ginger is an example of tubers.
29. Whiltakar proposed five kingdom classification.
30. All prokaryotes are classified under Monera.

Section D

Answer each of the questions 31 – 40.

31. Why do most arthropods undergo moulting?
32. Describe two types of metamorphosis in Arthropods.
33. How are termites harmful to mankind?
34. Write a brief note on cast system in social insects.
35. Where do we found algae?
36. What are the methods of reproduction in algae?

37. Why do mosses called amphibians of plant kingdom?
38. How stem, leaves and flowers play role in plants?
39. What are the functions of root systems?
40. How do the various leaf modifications help plants?

Section E

Answer each of the questions 41 – 45.

41. Write the advantages of honey bees.
42. Explain how can pest be controlled?
43. Mention any three common disease of crop plants caused by fungi.
44. How are fungi usually for industries?
45. State difference between aerobic and anaerobic respiration. Give equation of each process.