

## SEMESTER-TWO

### BIOLOGY

Class X

### Sample Paper—2

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. Which of the following feature is possessed by arthropods?  
(a) cellular level of organisation      (b) Non-segmented body  
(c) Jointed appendages/legs      (d) Calcarious exoskeleton.
2. Which of the following insect is useful to us?  
(a) *Musca*      (b) Cockroach  
(c) Mosquito      (d) *Apis*

3. Which one of the following having highest number of species in nature?
- (a) Arthropods (b) Flat worms  
(c) Round worms (d) Birds.
4. Metamorphosis in cockroach is
- (a) Ametabolic (b) Holometabolic  
(c) Paurometabolic (d) None of these
5. *Rhizopus* is commonly called
- (a) green mould (b) pink mould  
(c) bread mould (d) club fungi
6. The common name of *Penicillium* is
- (a) Green mould (b) pink mould  
(c) Pin mould (d) black mould
7. Rust of wheat is caused by
- (a) *Ustilago* (b) *Puccinia*  
(c) *Mucor* (d) *Agaricus*
8. The transfer of pollen grains from anther to the stigma of a flower is called.
- (a) Fertilisation (b) Pollination  
(c) Syngamy (d) Translocation
9. Dark reaction of photosynthesis occurs in
- (a) Thylakoids (b) Grana  
(c) Stroma (d) Chloroplast envelope
10. The fruits wall is fleshy and juicy in the fruits called
- (a) Dry fruits (b) Succulent fruits  
(c) simple fruits (d) Seasonal fruits

### Section B

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

11. .... which causes malaria is transmitted by female Anopheles mosquito.
12. The larva of housefly are called .....
13. The macronutrient \_\_\_\_\_ is a constituent of chlorophyll.
14. A micronutrient required in photolysis of water is \_\_\_\_\_
15. The light dependent phase of photosynthesis is called \_\_\_\_\_

16. The transfer of pollen grain from anther to the stigma of the same flower is called \_\_\_\_\_.
17. A pollen an gemination on stigma gives rise to \_\_\_\_\_.
18. Fungi do not contain \_\_\_\_\_.
19. A fungus \_\_\_\_\_ can be seen without microscope.
20. A Common fungus used in preparing the bread is \_\_\_\_\_.

### Section C

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

21. Female *culex* mosquito has piercing and sucking type of mouthparts.
22. Metamorphosis in honey bee is paurometabolic.
23. Ferns possess vascular tissues and do not produce seeds.
24. Gymnosperm bear seeds which are produced inside fruits.
25. Angiosperms are commonly called flowering plants.
26. Thorns are modified stems that protect plant from grazing by animals.
27. Stipules are modified into spines for defense.
28. Anabaena belongs to kingdom Monera.
29. Blue green algae belong to kingdom protista.
30. Compound leaves are found in many ferns.

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### Section D

Answer each of the questions 31 – 40.

31. How can mosquito borne diseases be prevented?
32. Name the main types of human diseases spread by mosquitoes.
33. Housefly neither bites nor sting yet we hate it? Explain.
34. Mention the uses of algae as food.
35. What is alternation of generation? Give one example of it.
36. State five features of ferns.
37. Write any five features of fungi.
38. Differentiate between taproot and fibrous root.
39. Give three importance of flowers.
40. Write the floral formula of the flower of the pride of Barbados.

**Section E**

*Answer each of the questions 41 – 45.*

- 41.** Name any two types of mosquito and mention the human diseases each of which transmit in human population.
- 42.** Name the different types of mouthparts found in Arthropods.
- 43.** How can the fungal disease in humans be prevented?
- 44.** Write the economic importance of mosses.
- 45.** Differentiate between tactic movements and nastic movements.