

Bhavan's Tripura Vidyamandir
1st Quarterly Test : (2025-2026)

Class:- 11
Time:- 1 Hour

Subject:- Biology
Total :- 25 Marks

Name of the student:

Roll: Sec :

General instructions:

- 1) There are 16 questions in all. All questions are compulsory
- 2) This question paper has three sections: Section A, Section B, Section C. All the sections are compulsory.
- 3) Section A contains 09 MCQ of 1 mark each and 2 Assertion and Reason, Section B contains three questions of two marks each, Section C contains only 1 question of three marks.
- 4) Section D contains only 1 question of five marks
- 5) There is no overall choice. However, an internal choice has been provided in section C, D. You have to attempt only one of the choices in such questions.
- 6) Use of calculators is not allowed.

SECTION-A

[1X11=11]

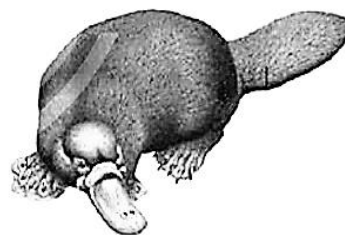
Each of the following carries 1 mark:

1. The term for the process by which an organism's genetic information is passed from one generation to the next-
a) Mutation b) Genetic drift c) Heredity d) Gene expression
2. Desmids is the name given to-
a) Golden Algae b) Diatoms c) Both a and b d) None of the above
3. Lichens is the mutual association of-
a) Algae and Fungi b) Cyanobacteria and Fungi
c) Green algae and Fungi d) Mycorrhiza and algae
4. The given diagram shows -
a) Male thallus of Marchantia
b) Female thallus of Marchantia
c) Sphagnum of sporophyte
d) Sphagnum of gametophyte
5. The dominant phase of the life cycle in pteridophytes is:
a) Gametophyte b) Sporophyte
c) Both gametophyte and sporophyte are equal d) Neither gametophyte nor sporophyte
6. The common plant body in algae is:
a) Protonema b) Thallus c) Gemmae d) Corm
7. Which of the following is correctly matched?
a) Polyp - Adamsia b) Flatworm- Ancylostoma
c) Insect - Aplysia d) Water vascular system -Sycon



8. Select the correct option for the diagram.

- a) Ornithorhynchus (Platypus); Oviparous
- b) Ornithorhynchus (Platypus); Viviparous
- c) Delphinus (Common dolphin); Oviparous
- d) Chameleon (Tree lizard); Viviparous



9. Androecium in Solanaceae is _____

- a) Epipetalous
- b) Epiphyllous
- c) Monoadelphous
- d) Polyadelphous

Question number (10-11) these consist of two statements- Assertion (A) and Reason (R). Answer the question selecting the appropriate option given below:

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true and R is not the correct explanation of A.
- c) A is true but R is false
- d) A is false but R is true

10. **Assertion-** Red algae contribute to the formation of coral-reefs

Reason- Some red algae secrete and deposit calcium carbonate over their cell wall.

11. **Assertion-** In *cassia* and Gulmohur, the corolla shows imbricate aestivation

Reason- The margins of the petals overlap one another, but not in any particular direction

SECTION-B

[2X3=6]

12. Describe the characteristics of viroids with example.

(1+1)

13. Discuss the importance of systematics in Biology.

14. a) Provide the technical term to describe the radially symmetrical flower.

b) The reproductive whorls, of a flower.

(1+1)

SECTION-C

[3X1=3]

15.

- 1. a) Identify the structure given above and name the phylum, it is characteristically present in it
- b) Where it is generally present in the body of the animals?
- c) Name the cell it contains.
- d) Mention it's two functions.



(0.5+0.5+1+1)

OR

Differentiate with important points between Annelida and Arthropoda.

(3)

SECTION-D

[5X1=5]

16. a) Schematically represents the life cycle of Bryophytes.

b) "Sporophytic phase is dominant over gametophytic phase in pteridophytes "Briefly explain the statement with your own words.

(3+2)

OR

Take a flower of the family Solanaceae and write it's technical description along with symbols of each parts. Draw their floral diagram.

(3+2)