

FORMATIVE ASSESMENT-IST PUC
BIOLOGY

Time duration:1hr

Max. marks:25

- General Instructions:** 1. The question paper has four parts A, B, C and D.
2. All the parts are compulsory.
3. Draw diagrams wherever necessary, unlabelled diagrams or illustrations do not carry marks.

PART A

I. Answer **any six** of the following questions in one word or one sentence each. **6X1=6**

1. Mules do not reproduce but are considered living. Why?
2. Red tides are seen in sea, why?
3. Name the plastid which stores proteins
4. What is polyribosome?
5. Define aestivation
6. During which process is periderm formed?
7. Give an example of a viviparous animal.

PART B

II. Answer **any five** of the following questions in three or five sentences each. **5X2=10**

8. a. What are the number of segments that are present in the abdomen of cockroach?
b. Name the type of coelom in earthworm.
9. a. How do the various leaf modifications help plant?
b. What type of Phyllotaxy is seen in mustard plant?
10. Name the commercial product produced by algae
a) *Gelidium* b) red algae c) *Chlorella* d) brown algae
11. Name any four economically important insects under phylum Arthropoda.
12. Bacteria have extensions of plasma membrane into cell. Name this extensions and uses of it.
13. What are the components of cell membrane? How are they arranged?

PART C

III. Answer **any one** of the following question in 100-150 words each. **1X4=4**

14. Draw neat and labelled diagram of a) Mitochondria b) Nucleus
15. (i) Mention the function of the following a) Ureter in Frog b) Malphagian tubules c) body wall in earthworm
(ii) What are the cellular components of blood?

PART D

IV. Answer **any one** of the following questions in 200-250 words each. **1X5=5**

16. Give a brief account of Bryophytes and its classes.
17. Describe the types of flowers based on the position of ovary and floral whorls on the thalamus.
