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6. How does the heart of an amphibian differ from that of a reptile ?
7. Distinguish between Proter and Opisthe.
8. Define Conjugation with reference to ciliates. Give two examples.
9. A person is suffering from bowel irregularity, abdominal pain, blood and mucus in stool, etc. Based on these symptoms, name the disease and its causative organism.
10. What are Circadian rhythms ?

SECTION - B

6×4=24

Note : Answer ANY SIX questions each in 20 lines .

11. What is the "Evil Quartet" ?
12. Describe the structure of a skeletal muscle.
13. What are the chief characters of the Crustaceans ?
14. What are the modifications observed in birds which help them in flight ?
15. What are lateral appendages ? Based on their presence and absence, write the various types of flagella giving atleast one example for each type.
16. "Prevention is better than cure." Justify with regard to TDA abuse.
17. Draw a neat and labelled diagram of Ommatidium.
18. Discuss the causes and effects of global warming. What measures need to be taken to control 'Global Warming' ?

SECTION - C

2×8=16

Note : Answer ANY TWO questions in 60 lines each.

19. Describe the structure and life cycle of *Ascaris lumbricoides* with the help of a neat and labelled diagrams.
20. Describe the respiratory system of Cockroach with the help of neat and labelled diagrams.
21. Describe lake as an ecosystem giving examples for the various zones and the biotic components in it.