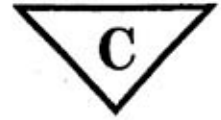


131
(TS)



Total No. of Questions - 21

Total No. of Printed Pages - 2

Regd.
No.

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Part - III
ZOOLOGY, Paper - I
(English Version)

Time : 3 hours

Max. Marks : 60

Instructions to Candidate :

- 1) Answer **all** questions of Section 'A'. Answer **any six** questions in Section 'B' and answer **any two** questions in Section 'C'.
- 2) In Section 'A', questions from Sr. Nos. 1 to 10 are of **Very Short Answer Type**. Each question carries **two** marks. Every answer may be limited to 5 lines. Answer all these questions at one place in the same order.
- 3) In Section 'B', questions from Sr. Nos. 11 to 18 are of **Short Answer Type**. Each question carries **four** marks. Every answer may be limited to 20 lines.
- 4) In Section 'C', questions from Sr. Nos. 19 to 21 are of **Long Answer Type**. Each question carries **eight** marks. Every answer may be limited to 60 lines.
- 5) Draw labelled diagrams wherever necessary for question in Sections 'B' and 'C'.

SECTION A

10 × 2 = 20

Note : Answer **all** questions in 5 lines each.

1. What is trinomial nomenclature? Give an example.
2. What is a kinty? In which organism it is present?
3. List any two differences between a flagellum and a cilium.
4. Mention two advantages of some UV rays to human beings.
5. Mention any two substances secreted by mast cells and their functions.
6. What is the difference between the larvae and adults of echinoderms, symmetry wise?

7. Name the type of caudal fins that are present in shark and catla respectively.
8. Define Retroperitoneal organs. Give an example.
9. Distinguish between white matter and grey matter of CNS.
10. What do you mean by parasitic castration? Give an example.

SECTION B

6 × 4 = 24

Note : Answer any six questions in 20 lines each.

11. Define 'species'. Explain various aspects of species.
12. Describe the structure of cardiac muscle.
13. Write any eight important features exhibited by polychaetes.
14. Name the four 'hallmarks' of chordates and explain the principal function of each of them.
15. Describe the process of longitudinal binary fission in Euglena.
16. 'Prevention is better than cure'. Justify with regard to TDA abuse.
17. Draw a neat labelled diagram of the mouthparts of a cockroach.
18. Compare any four adaptations of animals living in fresh water and marine water habitats.

SECTION C

2 × 8 = 16

Note : Answer any two questions in 60 lines each.

19. Describe the life cycle of plasmodium vivax in mosquito with the help of a neat and labelled diagram.
20. Describe the blood circulatory system of periplaneta in detail and draw a neat and labelled diagram of it. Add a note on circulation of blood.
21. Discuss in detail, different types of food chains that exist in an ecosystem.