Total No. of Questions—21

Total No. of Printed Pages—2

Part III
ZOOLOGY
Paper II
(English Version)

Time : 3 Hours
Max. Marks : 60

Note :— Read the following instructions carefully :

(i) Answer ALL the questions of Section A. Answer any SIX questions in Section B and answer any TWO questions in Section C.

(ii) In Section A, questions from Sl. 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 questions at one place in the same order.

(iii) In Section B, questions from Sl. Nos. 11 to 18 are of short answer type. Each question carries four marks. Every answer may be limited to 20 lines.

(iv) In Section C, questions from Sl. Nos. 19 to 21 are of long answer type. Each question carries eight marks. Every answer may be limited to 60 lines.

(v) Draw labelled diagrams wherever necessary in Sections B and C.

SECTION-A

Note :— Answer ALL the questions in 5 lines each.

1. Mention any two occupational respiratory disorders and their causes in human beings.

2. What is Juxtaglomerular apparatus?

3. Distinguish between red muscle fibres and white muscle fibres.

4. Name two cranial sutures and their locations.

5. What is ‘insulin shock’?

6. Distinguish between diabetes insipidus and diabetes mellitus.

7. What are the measures one has to take to prevent contracting STDs?

8. What is ‘amniocentesis’? Name any two disorders that can be detected by amniocentesis.

9. List out any two Indian carps and two exotic carps.

10. MRI scan is harmless. Justify.

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(1)

P.T.O.
SECTION-B  

Note: Answer any SIX questions in 20 lines each.

11. Draw a neat labelled diagram of L.S. of tooth.
12. How is respiratory movements regulated in man ?
14. Explain the mechanism by which HIV multiplies and leads to AIDS.
15. How is sex determined in human beings ?
16. Explain Darwin’s theory of Natural Selection with industrial melanism as an experimental proof.
17. Distinguish between homologous and analogous organs.
18. Explain the different types of cancers.

SECTION-C  

Note: Answer any TWO questions in 60 lines each.

19. Describe the structure of the heart of man with the help of a neat labelled diagram.
20. Describe male reproductive system of a man. Draw a labelled diagram of it.
21. What are multiple alleles ? Describe multiple alleles with the help of ABO blood groups in man.