

Total No. of Questions—21

Total No. of Printed Pages—2

Regd. No.

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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

10×2=20

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.

SECTION-B

6×4=24

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 ?
13. Give an account of synaptic transmission.
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

2×8=16

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.