

# 231

# I

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.