

0131**TS****A**

Total No. of Questions – 21

Total No. of Printed Pages - 2

Regd.

No.

1	8	6	0	1	2	3	4	0	4
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Part – III
ZOOLOGY, Paper-I
(English Version)

Time : 3 Hours]**[Max. Marks : 60****Note :** Read the following instructions carefully :

- (1) Answer **all** the questions in 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 questions in Sections – B and C.

SECTION – A

Note : Answer **all** questions in **5** lines each.**10 × 2 = 20**

1. Differentiate between Protostomia and Deuterostomia.
2. What is sesamoid bone ? Give two examples.
3. Which Arthropod, you have studied is called a 'living fossil' ? Name its respiratory organs.
4. Write four salient features of cyclostomes.
5. List any two differences between a flagellum and a cilium.
6. Define conjugation with reference to ciliates. Give two examples.

The eggs of Ascaris are called 'mammillated eggs'. Justify.

What are trichomes ? Write their functions.

What is 'storage excretion' ?

What is an ecosystem ?

SECTION – B

Note : Answer any **six** questions in **20** lines each.

6 × 4 = 24

What are the reasons for greater biodiversity in the tropics ?

Describe the three types of the cartilage.

Describe the structure of a multipolar neuron with neat labelled diagram.

Write short note on the salient features of the anthozoans.

What are the features peculiar to Ratitae birds ? Give two examples.

Draw a neat labelled diagram of Paramecium.

'Prevention is better than cure.' Justify with regard to TDA abuse.

How do marine animals adapt to hypertonic seawater ?

SECTION – C

Note : Answer any **two** questions in **60** lines each.

2 × 8 = 16

Describe the life cycle of Wuchereria bancrofti with neat diagrams.

Describe the digestive system of cockroach with the help of a neat labelled diagram.

List out the major air pollutants and describe their effects on human beings.