$\frac{131}{\text{TS}}$

B

Total No. of Questions : 21 Total No. of Printed Pages : 2

Regd. No.								
140.		_	-	-				_

Part · III ZOOLOGY, Paper - I

(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 these 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

 $10 \times 2 = 20$

Note: Answer all the questions in 5 lines each.

- 1. What does ICZN stand for?
- 2. What is Cephalization? How is it useful to its possessors?
- 3. Why is the true coelom considered a secondary body cavity?
- 4. What is the strongest cartilage? In which regions of the human body, do you find it?
- 5/ What is Aristotle's lantern? Give one example of an animal possessing it?

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- 6. How does the heart of an amphibian differ from that of a reptile?
- 7. Distinguish between Proter and Opisthe.
- 8. Define Conjugation with reference to ciliates. Give two examples.
- A person is suffering from bowel irregularity, abdominal pain, blood and mucus in stool, etc. Based on these symptoms, name the disease and its causative organism.
- 10. What are Circadian rhythms?

SECTION - B

 $6 \times 4 = 24$

Note: Answer ANY SIX questions each in 20 lines

- 11. What is the "Evil Quartet"?
- 12. Describe the structure of a skeletal muscle.
- 13. What are the chief characters of the Crustaceans?
- 14. What are the modifications observed in birds which help them in flight?
- What are lateral appendages? Based on their presence and absence, write the various types of flagella giving atleast one example for each type.
- 16. "Prevention is better than cure." Justify with regard to TDA abuse.
- 17. Draw a neat and labelled diagram of Ommatidium.
- 18. Discuss the causes and effects of global warming. What measures need to be taken to control 'Global Warming'?

SECTION - C

 $2 \times 8 = 16$

Note: Answer ANY TWO questions in 60 lines each.

- 19. Describe the structure and life cycle of Ascaris lumbricoides with the help of a neat and labelled diagrams.
- 20. Describe the respiratory system of Cockroach with the help of neat and labelled diagrams.
- 21. Describe lake as an ecosystem giving examples for the various zones and the biotic components in it.

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March, 2015