2021

ZOOLOGY — HONOURS

Paper: CC-3

(Non-Chordate II)

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any ten questions.

- 1. (a) Define coelom.
 - (b) Write the differences between acoelomates and pseudocoelomates with example.
 - (c) What is the significance of coelom?

1+(2+1)+1

- 2. (a) What is chloragogen cells?
 - (b) Write the main excretory product of earthworm.
 - (c) Describe in brief about the excretory mechanism in earthworm.

1+1+3

- **3.** Distinguish between metamerism and pseudometamerism. Describe the types of metamerism found in annelids with examples.
- **4.** Write the name and two important characteristic features of the class to which each of the following animals belong:

 1×5
 - (a) Palaemon sp.
 - (b) Julus sp.
 - (c) Periplaneta sp.
 - (d) Limulus sp.
 - (e) Peripatus sp.
- **5.** (a) What is metamorphosis?
 - (b) Distinguish between holometabolous and hemimetabolous insects citing one example of each.
 - (c) Comment on the role of prothoracicotropic hormone in Lepidoptera.

1+2+2

2 + 3

- **6.** (a) State the typical features of *Peripatus* sp.
 - (b) Why *Peripatus* is considered as a connecting link between annelids and arthropods?

Please Turn Over