

This question paper contains 2 printed pages.]

Your Roll No.

518

Subsidiary for B.Sc. Honours/I A
ZOOLOGY – Paper I
Animal Diversity – I (Non-Chordata)
(Admissions of 2004 and onwards)

Time : 3 Hours .

Maximum Marks : 50

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt **five** questions in all, including
Question No. 1 which is compulsory.
Draw labelled diagrams wherever necessary.
Marks are indicated against each question.

1. (a) Give one function of each of the following :
- (i) Ospharidium
 - (ii) Typhlosole
 - (iii) Contractile vacuole
 - (iv) Tube-feet 4
- (b) Give scientific names of the following :
- (i) Malarial parasite
 - (ii) Starfish
 - (iii) Earthworm
 - (iv) Apple snail 4

- (c) Match the following terms : 6
- | | | |
|-------|-------------------|-------------------|
| (i) | Pinacocytes | Cockroach |
| (ii) | Metagenesis | <u>Paramecium</u> |
| (iii) | Ambulacral groove | <u>Ascaris</u> |
| (iv) | Trachea | <u>Obelia</u> |
| (v) | Cyclosis | <u>Sycon</u> |
| (vi) | Pseudocoel | <u>Starfish</u> |
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2. Describe the life-cycle of Plasmodium. 9
3. Give an account of excretory system of earthworm. 9
4. (a) Explain the digestive system of cockroach.
 (b) Draw a well-labelled diagram of female reproductive system of cockroach. 6, 3
5. Discuss the life-cycle of Ascaris. Add a note on its parasitic adaptations. 6, 3
6. Give an account of water-vascular system in Pentaceros. 6, 3
7. Write short notes on any **three** :
- | | | |
|-------|--------------------------------------|---------|
| (i) | Pearl formation | |
| (ii) | Coral reefs | |
| (iii) | Pathogenicity of <u>Wuchereria</u> | |
| (iv) | Aquatic respiration in <u>Pila</u> . | 3, 3, 3 |