

D 74360

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Name.....

Reg. No..... 40.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014



(CUCBCSS-UG)

Core Course

Zoology

ZO 1B 01—ANIMAL DIVERSITY—NON-CHORDATA—I

Time : Three Hours

Maximum : 80 Marks

Give illustrations wherever necessary.

A. Answer all questions :

Name the following :—

- 1 The feeding and growing stage of the malarial parasite *Plasmodium*.
- 2 The larval form of *Ancylostoma duodenale*.
- 3 The sponge commonly known as Venus flower basket.
- 4 The marginal sense organs present in *Aurelia*.
- 5 The free swimming larval form of *Fasciola*.

Fill in the blanks :

- 6 *Pleurobrachia* belongs to the phylum _____.
- 7 _____ is commonly called "Sea sparkle".
- 8 _____ is the serial repetition of segments along the anterior-posterior axis of the body of an animal.
- 9 _____ is the endosymbiotic protist living in the gut of termites.
- 10 _____ is the chitinous outer covering of *Obelia*.

(10 × 1 = 10 marks)

B. Answer any ten questions :

- 11 What is water canal system? Name the different water canal systems present in Poriferans.
- 12 What is ICZN ?
- 13 What is a Schizocoel ? Mention two animal groups where Schizocoel is present.
- 14 Give the scientific names of the following :—
 - (a) Blood fluke.
 - (b) Liver fluke.
 - (c) Human round worm.
 - (d) Pin worm.
- 15 Mention the larval stages of *Fasciola*.
- 16 What are Cnidoblasts ?

- 17 What are Flame cells ?
- 18 What is Radial symmetry ? Give an example.
- 19 What are Trichocysts ?
- 20 Define Hermaphroditism. Give an example.
- 21 Differentiate between Protostomia and Deuterostomia.
- 22 What is parthenogenesis ? Give an example from the Phylum Gastrotricha.

(10 × 2 = 20 marks)

C. Answer any *five* questions :

- 23 Explain polymorphism and division of labour with a suitable example.
- 24 What is sexual dimorphism ? Explain with reference to *Schistosoma*.
- 25 Give an account of Five kingdom classification. Mention its merits.
- 26 Describe conjugation in *Paramecium*.
- 27 List out the salient features of Phylum Aschelminthes.
- 28 Enumerate the parasitic adaptations of *Fasciola*.
- 29 Give a comparative account of Polyp and Medusa.
- 30 Describe the salient features of Phylum Rhizopoda.

(5 × 6 = 30 marks)

D. Answer any *two* questions :

- 31 Describe the morphology of *Obelia* with the help of neatly labeled diagrams. Add a note on alternation of generation.
- 32 Explain the morphology and structural organization of *Paramecium*. Give an account of excretion and osmoregulation.
- 33 Write an essay on the new trends in Systematics.
- 34 Explain the salient features of Phylum *Porifera*. Give details on the different types of water canal systems found in this phylum.

(2 × 10 = 20 marks)