

D 50758

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Name.....

**Reg. No.....**

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2013**

(UG – CCSS)

Zoology (Core Course)

Z05 B09—ANIMAL DIVERSITY I—NON-CHORDATA

Time : Three Hours

**Maximum : 30 Weightage**

*Answer may be written either in English or in Malayalam.*

*Give illustrations wherever necessary.*

- I. Answer all twelve questions. Each question carries  $\frac{1}{4}$  weightage :

#### A. Objective type question :



**B. Match the following :—**



**Turn over**

C. Fill up the blanks :

- 9 Genus of common Dog Tapeworm is \_\_\_\_\_.
- 10 \_\_\_\_\_ is a *Tubicolus polychaete*.
- 11 \_\_\_\_\_ are the locomotory organs of *Astropecten*.
- 12 *Brachionus* belongs to Phylum \_\_\_\_\_.

(12 × ¼ = 3 weightage)

II. Short answer questions. Answer all nine questions :

- 13 What is Cyclosis ? Explain.
- 14 Enlist the salient features of Phylum Mesozoa.
- 15 Explain Parasitic castration in *Sacculina*.
- 16 What is Polymorphism ? Explain.
- 17 Mention the function of Corona and Cement gland in Rotifers.
- 18 Name the larva of (a) *Nereis* ; (b) *Balanoglossus* ; (c) Sponges ; (d) Star fish.
- 19 Distinguish between Polyp and Medusa.
- 20 What are Gemmules ? Explain.
- 21 Name the cephalic appendages of *Penaeus* and mention the function of each.

(9 × 1 = 9 weightage)

III. Short answer questions. Answer any five questions :

- 22 Describe the structure of *Obelia* colony.
- 23 Discuss the peculiarities and affinities of Ctenophora.
- 24 Describe the Nervous system of *Penaeus*.
- 25 Describe Water vascular system of Star fish.
- 26 Enlist the salient features of Phylum Echiuridea with a typical example.
- 27 Describe the Ecological and Adaptive features and Economic importance of *Sepia*.
- 28 Discuss the Zoological importance of Onychophora.

(5 × 2 = 10 weightage)

IV. Essay questions. Answer any two questions :

- 29 Describe the structure of *Paramecium* and explain Conjugation in *Paramecium*.
- 30 Describe the structure of Ommatidium and mechanism of vision in *Penaeus*.
- 31 With a neat labelled sketch, describe the Pallial complex of *Pila*.

(2 × 4 = 8 weightage)