

B.Sc. (Part - I) (With Credits)-Regular-Semester 2012 Sem II
2SZoo-T1 - Zoology-I (Life and Diversity of Animals-Non-chordate)
(Arthropoda to Protochordata) Paper – I

P. Pages : 2

Time : Three Hours



GUG/W/16/5590

Max. Marks : 50

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagram wherever necessary.

1. Write an essay on insects as vectors of human diseases. **10**

OR

- a) Pulmonary respiration in Pila.
- b) Male reproductive system of Pila.

2. Give a detailed account on morphological structure of Asterias. **10**

OR

- a) Retrogressive metamorphosis.
- b) Petromyzon

3. Attempt the following : **10**

- a) Mouth parts of cockroach.
- b) Odontophore.
- c) Tiedemann's bodies.
- d) Feeding mechanism in Amphioxus.

OR

- e) Spermatophore formation.
- f) Pearl Formation.
- g) General characters of Hemichordata.
- h) Digestion in Herdmania.

4. Attempt the following.

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- a) Houses fly
- b) Shell formation.
- c) Regeneration in Asteroids.
- d) Test of Herdmania

OR

- e) Salivary glands of Periplaneta.
- f) Radula
- g) Collar of Balanoglossus.
- h) Protonephridia.

5. Write four or five lines on the following **any ten**.

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- i) Ovariole
- ii) Thigmoreceptor.
- iii) Rectal papillae.
- iv) Hepatopancreas.
- v) Euphyre sperm
- vi) Oriental pearl.
- vii) Tube feet
- viii) Radial canal.
- ix) Protocoel
- x) Velum.
- xi) Ocelli
- xii) Microscleres.
