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## SUBJECT CODE NO:- B-2171 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. F.Y (Sem.-II) Examination OCT/NOV 2019 Zoology Paper-IV

Arthropoda to Echinodermata and Protochordata [Time: 1:30 Hours] [Max.Marks:50] N.B i) Attempt all questions. ii) Illustrate your answer with suitable labeled diagram. Q.1 Describe in details Female reproductive system of cockroach 20 OR Give an account of the nervous system of pila Q.2 Explain in details external features of Amphioxus. 20 OR Write short notes on (any four) a. Madreporite b. Abdominal appendages of prawn c. Tube feet d. General characters of Herdmania e. Oral view of starfish f. Statocyst Q.3 Select and write correct answer from the given alternatives in each sub questions: 10 1. The sex of prawn can be identified externally by observing these appendages. a) II -chelate legs b) I- Maxillipedes c) I- abdominal appendage d) II – nonchelate leg 2. Ootheca of cockroach is secreted by: a) Mashroom gland b) Conglobate gland c) Collaterial gland d) Genital pouch of female 3. How many teeth are found in a row of radula a) Seven b) Five c) Nine d) Eleven

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- 4. Function of pedicilariae:
  - a) Capture prey
  - b) Capture and removal food
  - c) Capture, removal debris and minute organisms
  - d) Help in respiration.
- 5. Osphradium is:
  - a) Olfactory
  - b) Gustatory
  - c) Tangoreceptor
  - d) Photoreceptor
- 6. Stomodaeal valve in cockroach is situated between:
  - a) Crop and Gizzard
  - b) Gizzard and Mesenteron
  - c) Mesenteron and ileum
  - d) Rectum and anus
- 7. The total no. of appendages present in prawn is:
  - a) Sixteen
  - b) Nineteen
  - c) Seven
  - d) Thirteen
- 8. Pila is:
  - a) Monoecious
  - b) Dioecious
  - c) Hermaphrodite
  - d) None
- 9. Reproduction in Hemichordates is mainly:
  - a) Asexual
  - b) By budding
  - c) Sexual
  - d) Regeneration
- 10. Which of the following term is not used for Herdmania
  - a) Undapasi
  - b) Mulaikanna
  - c) Sea squirt
  - d) Sea skirt.