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**SUBJECT CODE NO: - 2082**  
**FACULTY OF SCIENCE & TECHNOLOGY**  
**B.Sc. F.Y Sem-II**  
**March/April-2022 (To be held in June/July-2022)**  
**Zoology Paper-IV**  
**Arthropod to Echinodermata and Protochordata**

[Time: 1:53 Hours]

[Max. Marks:50]

Please check whether you have got the right question paper.

- N. B
1. Attempt all questions.
  2. Illustrate your answer with suitable diagram.
- Q.1 Describe in detail nervous system of prawn. 20
- OR
- Describe in detail digestive system of cockroach. 20
- Q.2 Give the external characters of pila globose. 20
- OR
- Give short notes on (any four) 20
- a) Water vascular system in sea star
  - b) General characters of Hemichordate
  - c) Morphology of herd mania
  - d) Digestive system in amphioxus
  - e) Cephalic appendages of prawn
  - f) Morphology of oral view in asterias
- Q.3 Select and write correct answer from the given alternative in each sub- question. 10
- 1) The total number of appendages present in the prawn is
    - a) Sixteen
    - b) Nineteen
    - c) Seven
    - d) Thirteen
  - 2) Prawn has \_\_\_\_\_ pairs of walking legs.
 

a) 5 pairs	b) 8 pairs	c) 13 pairs	d) 19 pairs
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  - 3) Vision of cockroach is
 

a) Monocular	b) Binocular	c) Mosaic	d) All
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  - 4) Number of male chromosomes in cockroach.
 

a) 33	b) 34	c) 32	d) 30
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- 5) The type of antenna in cockroach is
- a) Aristotle
  - b) Filiform
  - c) Clubbed
  - d) Plumose
- 6) Excretory organ of pila is
- a) Keber's organ
  - b) Kidney
  - c) Renal organ
  - d) None
- 7) Osphradium is the association with
- a) Digestion
  - b) Respiration
  - c) Excretion
  - d) Olfactory sensation
- 8) Bipinnaria have
- a) Somatocoel
  - b) Hydrocoel
  - c) Axocoel
  - d) All
- 9) Water vascular system contains
- a) Madreporite
  - b) Stone canal
  - c) Ring canal
  - d) All of these
- 10) The power of Regeneration occurs in
- a) Coelenterate
  - b) Porifera
  - c) Echinodermata
  - d) All