

Seat  
No.

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April-2013

कक्ष - 039

**ZOOLOGY PAPER - I (NEW) : ZOO-111**  
**Non-chordates - I**

**P. Pages : 2**

**Time : Two Hours**

**Max. Marks : 40**

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All question are compulsory.
5. Figures to the right indicate full marks.

**1. Multiple choice Attempt any eight.**

**8**

- i) Pila is popularly called as .....  
a) Apple snail                      b) Pearl oyster  
c) Sea Horse                        d) Sea Leman.
- ii) In Pila the odontophore is associated with .....  
a) Olfaction                        b) Vision  
c) Hearing                          d) Gustation.
- iii) The function of ctenidium is .....  
a) Digestion                        b) Respiration  
c) Reproduction                    d) Nervous.
- iv) In pila circulatory system is ..... type.  
a) Open                              b) Closed  
c) Mixed                            d) None.
- v) The heart of pila consist of .....chambers.  
a) One                                b) Two  
c) Three                              d) Four.
- vi) In Pila osphradium is .....  
a) Tangoreceptor                    b) Chemoreceptor  
c) Photoreceptor                    d) Rheoreceptor.
- vii) The skeleton of sponges are .....  
a) Spicules                         b) Collagen fibres  
c) Choanocytes                    d) All of them.

- viii) Gemmules are .....
- |                       |                         |
|-----------------------|-------------------------|
| a) Respiratory organs | b) Photoreceptors       |
| c) Auditory organs    | d) Reproductive bodies. |
- ix) Pearls are produced by .....
- |             |                 |
|-------------|-----------------|
| a) Annelids | b) Arthropods   |
| c) Molluscs | d) Echinoderms. |
- x) Pedicellariae are characteristics of .....
- |                    |                   |
|--------------------|-------------------|
| a) Platyhelminthes | b) Arthropoda     |
| c) Mollusca        | d) Echinodermata. |

2. Define / Explain / Comment on **any four**. 8

- |                          |                   |
|--------------------------|-------------------|
| a) Mantle cavity of pila | b) Blood of pila  |
| c) Osphradium            | d) Testis of pila |
| e) spicules              | f) Metamerism.    |

3. Attempt **any two** of the following. 8

- a) Ctenidium of pila.
- b) Statocyst of pila.
- c) Sketch and label pedicellariae.

4. A) Attempt the following **any two**. 6

- i) Foot of pila.
- ii) Gemmule in sponges.
- iii) Sponging type of mouth parts.

B) Explain columella of pila. 2

5. Attempt **any one** of the following. 8

- a) With the help of labeled diagram.

OR

Explain the alimentary canal of pila.

- B) What is pearl ? With neat labeled diagram describe pearl formation in molluscs.

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