

ZOOLOGY PAPER - I : ZOO - 111

Non-Chordates - I

(11155)

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 questions are compulsory.
5. Figures to the right indicate full marks.
6. Draw neat labelled diagrams wherever necessary.

1. Multiple choice attempt any eight

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- i) Pila is popularly called the
 - a) apple snail
 - b) pearl oyster
 - c) sea horse
 - d) sea lemon
- ii) The linear arrangement of segments is called.....
 - a) Metabolism
 - b) Metamerism
 - c) Chain of zooids
 - d) all
- iii) Testis are paired and are closely attach to the
 - a) pericardium
 - b) anterior renal chamber
 - c) Digestive gland
 - d) ctenidium.
- iv) Statocysts are organ of
 - a) Digestion
 - b) Respiration
 - c) Vision
 - d) equilibrium.
- v) The respiratory pigment found in blood of pila is
 - a) Haemoglobin
 - b) Haemocyanin
 - c) Chlorocruorin
 - d) Vanadin
- vi) Monopectinate ctenidium is found in
 - a) Pila
 - b) Heliothis
 - c) Patella
 - d) all
- vii) Mantle cavity divided into two chambers by
 - a) ctenidium
 - b) genital duct
 - c) Rectum
 - d) epitaenia

viii) The whole series of whorls, exclusive of the body whorl in pila is known as

- | | |
|--------------|-----------|
| a) Spire | b) Varinx |
| c) Umbilicus | d) Suture |

ix) In pila odontophore is associated with

- | | |
|-----------------------|--------------|
| a) Olfactory function | b) Vision |
| c) hearing | d) gustation |

x) Gemmules produced during

- | | |
|-------------------------|-------------------|
| a) unfavorable season | b) rainy season |
| c) favourable condition | d) Throught year. |

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

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- | | |
|------------------|-----------------|
| i) Monoaxon | ii) Excretion |
| iii) Oviposition | iv) Ommatophore |
| v) Auricle | vi) nuchal lobe |

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

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- i) Foot of the pila.
- ii) Describe sinuses in pila.
- iii) Sketch and label - male reproductive system of pila.

4. a) Attempt **any two** of the following.

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- i) Describe microscopic structure of shell of pila
- ii) Explain the radulla of pila.
- iii) Sketch and label - statocyst

b) Explain - copulatory organ of pila.

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

8

- i) What is pedicellariidae ? Describe different types of pedicellariidae in starfish with neat labelled diagram.
- ii) Give an account of digestive system of pila.
