



Oct-2014



कोकीला - 019

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. Answer sheet 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 right indicate full marks.
6. Draw neat labelled diagrams wherever necessary.

1. Multiple choice attempt any eight.

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- i) Gemmules are produced by.....
 - a) Protozoans
 - b) Sponges
 - c) Coelenterates
 - d) Annelids
- ii) Pila copulates in.....
 - a) Sand
 - b) Burrows
 - c) Water
 - d) Dry soil
- iii) One of the following is not found in pila.....
 - a) Cerebral ganglia
 - b) Pleural ganglia
 - c) Pedal ganglia
 - d) Commissural ganglia
- iv) The heart of pila consist of..... chambers.
 - a) Three
 - b) Two
 - c) One
 - d) Four
- v) In pila pulmonary respiration is performed by.....
 - a) Ctenidium
 - b) Lung
 - c) Rectum
 - d) Epitaenia
- vi) In radula teeth are arranged in transverse rows each one bears.....
 - a) 5 teeth
 - b) 7 teeth
 - c) 9 teeth
 - d) 12 teeth

- vii) The colour of shell of pila is.....
- a) Blue b) Orange
c) Lemon yellow d) Red
- viii) In pila circulatory system is type.
- a) Open b) Closed
c) Mixed d) None of these
- ix) In pila osphradium is..... type.
- a) Monopectinate b) Bipectinate
c) Pelicete d) Holobranchiate
- x) The spicules having only one axis called as.....
- a) Asters b) Sigmas
c) Monoaxons d) Spheres.

2. Define / Explain / Comment any four.

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- i) Mollusca
- ii) Mantle cavity
- iii) Heart of pila
- iv) Statocyst
- v) Oviposition
- vi) Excretion.

3. Attempt any two of the following.

8

- i) Systematic position, habit and habitat of pila.
- ii) Theories of metamerism in annelids.
- iii) Sketch and label digestive system of pila.

4. a) Attempt any two of the following.

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- i) Give in brief mechanism of blood circulation in pila.
- ii) Describe osphradium of pila.
- iii) Explain chewing and lapping mouth parts.

b) Explain – Triphyllous pedicellariae.

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

8

- i) What is spicules ? Describe various types of megascleres spicules in sponges.
- ii) Describe male reproductive system of pila and add a note on copulation.
