

ZOOLOGY PAPER-I (NEW) (11155) 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 questions are compulsory.
5. Figure to right indicate full marks.
6. Draw neat labelled diagrams wherever necessary.

1. Multiple choice Attempt any eight.

8

- i) Statocyst are organ of
- a) Vision b) Respiration
c) Equilibrium d) Digestion
- ii) Pedicellariae are characteristics of
- a) Mollusca b) Echinodermata
c) Arthropoda d) Porifera
- iii) The mode of respiration in pila is
- a) Aerial b) Parasitic
c) Aquatic and aerial d) Aquatic
- iv) The linear arrangement of segment is called
- a) Metamerism b) Metabolism
c) Chain of Zooids d) All
- v) The mantle cavity divided into two chamber by
- a) Ctenidium b) Genital duct
c) Rectum d) Epitaenia
- vi) Gemmules are
- a) Respiratory organ b) Auditory organ
c) Reproductive bodies d) Receptor.

- vii) In the pila shell usually consist of
 a) 3.5 whorls b) 5.5 whorls
 c) 6 whorls d) 6.5 whorls
- viii) The skeleton of sponges are
 a) Choanocytes b) Collagen fibres
 c) Spicules d) All
- ix) The heart of pila consist of chamber.
 a) Three b) Two
 c) One d) Four.
- x) The spicules having only one axis called as
 a) Asters b) Sigmas
 c) Monoaxons d) Sphere.

2. Define / Explain **any four**. 8
 i) Tentacles ii) Pedicellariae
 iii) Pulmonary sac iv) Foot
 v) Amoebocytes in pila vi) Buccal ganglia.
3. Attempt **any two** of the following. 8
 i) Salivary gland.
 ii) Ctenidium of pila.
 iii) Sketch and label operculum of pila.
4. a) Attempt **any two** of the following. 6
 i) Hepatopancreas (liver) of pila.
 ii) Piercing and sucking mouth parts.
 iii) Stalked pedicellariae in starfish.
- b) Explain - Pearl. 2
5. Attempt **any one** of the following. 8
 i) Describe male reproductive system of pila and add a note on copulation.
 ii) What is pearl ? Describe brief account of pearl formation in molluscs.
