

Seat Number

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Nov-2016



काठ - 008

ZOOLOGY PAPER - I : ZOO - 231
Non Chordates - II
(231501)

P. Pages : 3

Time : Two Hours

Max. Marks : 60

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Figures to right indicate full marks.
5. Draw neat labelled diagrams wherever necessary.

1. a) Multiple choice questions attempt **any six**.

6

- i) Sea star belong to the class.....
 - a) Asteroidea
 - b) Echinoidea
 - c) Ophiuroidea
 - d) Holothuroidea
- ii) In sea star, the pyloric caeca function as the.....
 - a) Kidney
 - b) Digestive glands
 - c) Gonad
 - d) None
- iii) Water vascular system of sea star is called..... system.
 - a) Ambulacral
 - b) Pedicellariae
 - c) Labellum
 - d) Papillae
- iv) The coelomic fluid of Asterias contains phagocytic cells termed as.....
 - a) Pseudocyte
 - b) Erythrocytes
 - c) Coelomocytes
 - d) Leucocytes
- v) The Respiratory organs of Asterias are.....
 - a) Gills
 - b) Papulae
 - c) Both a and b
 - d) Pedicellariae
- vi) Asterias is.....
 - a) Ammonotelic
 - b) Uricotelic
 - c) Ureotelic
 - d) None of these

- vii) Amoeba locomotates with the help of.....
 a) Cilia b) Flagella
 c) Filopodia d) Pseudopodia
- viii) The foot of Dentalium is narrow and shaped.
 a) Teeth b) Tongue
 c) Liver d) Heart

b) Answer in one sentence any six.

6

- i) Which type of foot found in Dentalium
- ii) What is the locomotory organelles in paramecium.
- iii) Which is the simplest type of canal system in sponges.
- iv) Give an example of Insect having piercing and sucking mouth parts.
- v) What is regeneration.
- vi) What function of terminal tentacles in sea star.
- vii) What type of circulatory system is found in sea star.
- viii) Write names of pedicellariae present in sea star.

2. Define / Explain / Comment any six.

12

- a) Tiedmann's body.
- b) Pyloric caeca of sea star.
- c) Tube feet.
- d) Visceral Nervous system in sea star.
- e) Fertilization.
- f) Mandibles.
- g) Spongocoel.
- h) Cilia.
- i) Autotomy.

3. Attempt **any four** from the following. 12
- a) Write note on stomach of sea star.
 - b) Write note on Axial gland of sea star.
 - c) Sketch and label Bipinnaria larva.
 - d) Sketch and label siphoning type of mouth parts in Butterfly.
 - e) Explain mechanism of ciliary movement.
 - f) Describe the foot in Amphineura.
4. Attempt **any three** from the following. 12
- i) Sketch and label water vascular system of sea star.
 - ii) Describe epidermal Nervous system in sea star.
 - iii) Describe the sycon type of canal system in sponges.
 - iv) Sketch and label chiton.
 - v) Describe piercing and sucking type mouth parts of insects.
5. Attempt **any two**. 12
- a) Give an account of the digestive system of sea star.
 - b) With well labelled diagram explain the sense organs of sea star.
 - c) What are pseudopodia ? Describe different types of pseudopodia.
