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April-2016



कंठस्थ - 017

ZOOLOGY PAPER - I : ZOO-111
Non Chordates - I
(115101)

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. All questions are compulsory and figures to the right indicate full marks.
5. Draw neat labelled diagrams wherever necessary.

1. A) Multiple choice questions any six.

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- i) The Feeding, habit of prawn is ----
a) Frugivorous b) Sanguivorous
c) Omnivorous d) All.
- ii) The digestive system of prawn consists of alimentary canal and ----
a) Pituitary gland b) Thyroid gland
c) Hepatopancreatic gland d) None of these.
- iii) Prawn bears ----- pairs of phyllobranch gills.
a) Ten b) Eight
c) Nine d) Seven
- iv) Blood from pericardial sinus enters the heart through -----
a) Veins b) Capillaries
c) Ostia d) All
- v) Removal of metabolic wastes from body is known as -----
a) Respiration b) Digestion
c) Reproduction d) Excretion.
- vi) The brain of prawn is ----- structure.
a) Unilobed b) Bilobed
c) Trilobed d) Tetralobed

vii) ----- enable the sponges to survive in unfavourable conditions.

- a) Spicules b) Gemmules
c) Both d) None of these

viii) ----- of prawn consists of 13 segments.

- a) Head b) Tail
c) Abdomen d) Cephalothorax

B) Answer in one sentence any six.

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- i) In the second maxilliped of prawn which part is not present?
- ii) What is habitat of prawn?
- iii) What is function of epipodites?
- iv) What are pleopods?
- v) Which organ of digestive system of prawn has the pyloric filter?
- vi) How many pairs of gills are phyllobranch in palaemon?
- vii) What is mean by excretion?
- viii) What is coral reef?

2. Define/Explain/comment Any six.

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- a) Omnivorous,
- b) Fertilization
- c) Hepatopancrease
- d) Respiration
- e) Haemocoel
- f) End sac.
- g) Gemmules
- h) Cardiac stomach
- i) Excretion

3. Attempt any four from following.

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- i) Systematic position of palaemon.
- ii) Tactile setae.
- iii) Economic importance of molluscs.
- iv) Sketch and label Gemmules.

v) Sexual dimorphism in prawn.

vi) Antennary gland of prawn.

4. Attempt **any three** from following.

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a) Antenna of prawn.

b) Sketch, label and describe uropod of prawn.

c) Phyllobranch of palaemon.

d) Heart of prawn.

e) Ventral nerve cord of palaemon.

5. Describe in detail **Any two**.

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a) Central nervous system of palaemon.

b) Male Reproductive system of prawn.

c) Affinities of Hemichordata.
