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Oct - 2014



कुमकुम - 013

ZOOLOGY PAPER - I : ZOO-231
Non Chordates - II
(New) (23155)

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

1. Multiple choice.

8

- a) Body of leech can be divided into ----- regions.
i) 5 ii) 8 iii) 4 iv) 6
- b) In leech; the coelomic fluid contains ----- Which imparts red colour to the fluid.
i) haemocyanin ii) Haematin iii) haemoglobin iv) all
- c) In leech ----- pair of nephridia are present.
i) 20 ii) 17 iii) 19 iv) 16
- d) ----- Pairs of eyes are present in leech.
i) one ii) two iii) Four iv) five
- e) leeches are ----- animals
i) Unisexual ii) bisexual iii) hermaphrodite iv) none
- f) Anticoagulant present in leech is -----
i) pepsin ii) hirudin iii) renin iv) trypsin
- g) Study of Molluscan shell is called -----
i) oncology ii) malacology iii) Ornithology iv) conchology.
- h) Study of bees is known as ----
i) sericulture ii) apiculture iii) horticulture iv) lac culture.

2. Define/ Explain/ comments **any four**. 8
- a) Segmentation
 - b) Sericulture
 - c) Ectoparasite
 - d) Testicular Nephridia
 - e) Polymorphism
 - f) Sanguivorous.
3. Attempt **any two** of the following. 8
- a) Autonomic nervous system of leech.
 - b) Annular receptors
 - c) Sketch & label –female reproductive system of leech.
4. Attempt **any two** of the following. 8
- a) Copulation and fertilization in leech
 - b) Economic importance of lac insect.
 - c) Sketch & label – Doliolaria larva of Echinoderm.
5. Attempt **any one** of the following. 8
- a) Uses of Honey bee.
 - b) Central nervous system of leech.
