2022

M.Sc.

4th Semester Examination

ZOOLOGY

PAPER-Z00-494

(Practical)

Full Marks: 50

Time: 5 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all questions.

- Make match schematically (drawing arrows) of the following terminologies with respective animals:
 - (a) Phytoremediation (i) Chronomid larva of diptera
 - (b) Bioindicator (ii) Tiger (sensitive)

(c) Key stone species (iii) Dolphin

| (d) Flagship species (iv) Water hyacynth |
|---|
| (e) Bioindicator (v) Gastropod : (folerant) Bellamya bengalensis |
| Apply appropriate statistical test to deduce significance from the data provided. |
| Draw the ultra-structure of insect neuroeudocrine system with proper labelling. Write down the primary roles of the hormones released by three main eudocrine glands in insects. 5+3 |
| Extract, stain and display the chick embryo from the fertilized egg provided. Identify with reasons and draw a labelled diagram. 8+4 |
| Laboratory Note Book. 5 |
| Viva-voce. 5 |

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