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End Semester Examination of Semester-II, 2016

Subject : ZOOLOGY (PG)

Paper : ZOOPG-202

Group : Gr A + Gr B

Full Marks : 40

Time : 2 Hrs

The figures in the margin indicate the marks corresponding to the question

Candidates are requested to give their answers in their own word as far as practicable.

Illustrate the answers wherever necessary.

Use separate Answer scripts for Group A and Group B

Group A (Marks : 20)

Answer Question No. 1 and any one out of Question No. 2 and Question No. 3

1. Answer any five questions : 5x2=10
- i) What is Pterothorax?
 - ii) What are the diagnostic features of the order Coleoptera?
 - iii) Mention the role of Peritrophic membrane in insect gut.
 - iv) Differentiate between Holometabola and Hemimetabola.

(2)

- v) What is Pterostigmata?
 - vi) What is Ophisthognathous type of insect head?
 - vii) State the roles of insects as bioindicator.
 - viii) Briefly highlight the significance of modification of insects' wings.
2. Briefly describe the structure of insect cuticle with suitable diagram. Mention the role of MH in insect metamorphosis. 5+2+3
3. Explain the speciality of Insect got in respect of structure & function. Write a note on the biting type of insect mouthparts. What is ommatidium? 5+3+2

Group B (Marks : 20)

Answer Question No. 1 and any one out of Question No. 2 and Question No. 3

1. Answer any five questions : 2X5=10
- i) Write a note on EEZ.
 - ii) Write short note on Cryopreservation.
 - iii) Write full form of MPEDA, NABARD, FSI & DOD.
 - iv) What is rete mirabile?
 - v) Name two air breathing apparatus of fishes with the scientific names of the fishes.
 - vi) Briefly mention the economic importance of fishery.

- vii) Differentiate between lagoon and back water.
- viii) Write the types of swim bladder and their example.
2. a) Draw basic structure of gill and label it.
- b) With proper diagram describe the reason of "Cross current" flow of blood & water in gill. 4+6
3. a) Give an account of types of fish migration.
- b) Briefly describe the osmoregulatory strategy of marine teleosts & elasmobranchs. 4+(3+3)
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