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M-6531

M.Sc. (III[rd] Semester) Examination, 2020

ZOOLOGY

(Comparative Animal Physiology)

Time Allowed : Three Hours

Maximum Marks : 70

Note : Attempt one question from each unit. All questions carry equal marks.

Unit - I

Q. 1. Describe the process of gas exchange in vertebrate groups. **14**

Or

Explain the fundamental plan of venous system of vertebrate.

Unit - II

Q. 2. Explain the acid base balance in blood. **14**

Or

How to circulatory and respiratory response to extreme conditions ?

Unit - III

Q. 3. Describe the osmoregulation in different terristrial animals. **14**

Or

Write an essay on Thermoregulation in different groups of chordate.

Unit - IV

Q. 4. Describe the mechanoreception in different vertebrates. **14**

Or

Define the bioluminescence. Explain with suitable examples the various types of bioluminescence organ in vertebrate.

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Unit - V

Q. 5. Discuss the physiology of muscle contraction among vertebrate. **14**

Or

Describe the feeding mechanisms, absorptive function and effect of starvation in vertebrate.

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