



**AF-3538**

M.Sc. (Final)  
Term End Examination, 2017-18

**ZOOLOGY**

Paper - II

Vertebrate Anatomy, Physiology, Immunology,  
Biomolecules and Metabolic Regulation

*Time : Three Hours] [Maximum Marks : 100*  
*[Minimum Pass Marks : 36*

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**Note** : Answer **all** questions. All questions carry equal marks.

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**Unit - I**

1. Give a comparative account of respiratory organs in vertebrates.

***OR***

Write short notes on any **two** of the following :

- (a) Respiratory pigments
- (b) Comparative account of jaw suspensorium
- (c) Types of palate in birds

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**Unit - II**

2. Discuss pattern of nitrogen excretion among different chordate groups.

***OR***

Write short notes on any **two** of the following :

- (a) Bioluminescence
- (b) Pheromones
- (c) Chromatophores

**Unit - III**

3. Discuss organisation and structure of lymphoid organs.

***OR***

Discuss structure and function of different antibodies.

**Unit - IV**

4. Describe the chemical structure of nucleic acids.

***OR***

Discuss classification and nomenclature of enzymes.