KJ-494

M.Sc. (Zoology)

3rd Semester Examination, June, 2020

Paper - I

Comparative Anatomy of Vertebrates

Time : Three Hours] [*Maximum Marks* : 80

Note : Answer from **all** the Units and Question No.1 is compulsory. All questions carry equal marks.

1. Write short notes on the following :

(*a*) Classification of mammals (in short)

(*b*) Structure and function of blood

(*c*) Metanephros nephron

(*d*) Neuromast organs

Unit-I

2. Explain the geological and ecological condition during origin of vertebrate.

OR

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Give the detailed account on classification of amphibia and classify the class upto order with example.

Unit-II

3. Give the comparative account of the structure and function of vertebrate skin.

OR

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

(*a*) Soft derivatives of skin

(*b*) W. B. C. and their function

(*c*) Evolution of heart

Unit-III

4. Write the comparative account of limbs of vertebrate with suitable diagram.

OR

Explain the all respiratory surface of vertebrates in detail.

Unit-IV

5. Give the detailed account of spinal cord in all higher vertebrates.

OR

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

(*a*) Light receptors

(*b*) Peripheral and autonomous nervous system

(*c*) Anatomy of brain

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