B.U. Examination Dec-2020

M.Sc IInd Sem Zoology (ATKT)

M.M. - 85

Paper - I

General and Comparative Animal Physiology and Endocrinology

Note:- Attempt All Questions (Word Limit- 250 words each Q.)

- Q.1 Describe Autonomic nervous system in details.
- Q.2 What do you understand by osmoregulation? Explain the Process of osmoregulation in aquatic animals.
- Q.3 Explain mechanism of photoreception.
- Q.4 What is Chromatophores? Write the chromatophores in fishes.
- Q.5 Write mechanism of Hormone action.

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Paper II Population Ecology and Environmental Physiology

Note:- Attempt All Questions (Word Limit- 250 words each Q.)

- Q.1 Explain Populations and their characteristis.
- Q.2 Explain the Levels of adaptations and write their significance
- **Q.3 Describe the Environmental limiting** factors.
- Q.4 write down the conservation management of natural resources.
- Q.5 Explain the concept of homeostasis.

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Paper III

Tools and Techniques in biology Note:- Attempt All Questions (Word Limit- 250 words each Q.)

Q.1 write an essay on Microscopy.

Q.2 Write a detailed note on chromatography.

Q.3 Give an account of biosensors.

Q.4 Write an illustrated account of Tissue Fixation.

Q.5 Explain D.N.A. Sequencing.

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Paper IV

Molecular Cell Biology and Genetics.

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Note:- Attempt All Questions (Word Limit- 250 words each Q.)

- Q.1 Describe the Structure of Microfilaments and Microtubules.
- Q.2 Explain Signalling pathway from the membrane to Nucleus.
- Q.3 Write an essay on various cell adhesion molecules.
- Q.4 Explain Sex determination in Humans.
- Q.5 Explain prenatal diagnosis and genetic counselling.