

PE - 505
(554) M.Sc. ZOOLOGY (FOURTH SEMESTER)
Examination JUNE - 2022
Compulsory/Optional
Group
Paper-I

Name/Title of Paper- GENERAL PHYSIOLOGY AND NEUROPHYSIOLOGY
Time: 3:00 Hrs.]

[Maximum Marks: 080
[Minimum passing marks:

नोट: दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note: Answer from Both the Section as Directed. The Figures in the right-hand margin indicate marks.

- Q1. Answer the following very short as answer type question. 1x10=10
- a) Name the parts of Brainstem.
 - b) Name the supporting cells of Nervous system.
 - c) What is full form of GABA?
 - d) Where is the exact location of corpus callosum?
 - e) Name the salivary glands of human beings.
 - f) What is phonocardiogram.
 - g) Name the receptor which responds to any changes in blood pressure.
 - h) What is cause of Rigor mortis?
 - i) What is motor and plate?
 - j) Where urea and urine formed in the human body?
- Q2. Answer the short answer type question. 2x5=10
- a) What are the functions of Neurotrophins?
 - b) Define chronaxie and Rheobase.
 - c) What are mixed cranial nerves.
 - d) Define oxygen debt.
 - e) Define homeostasis.
- Section – B
- Answer the long answer type questions:- 15x4=60
- Q3. What are the properties of Nerve fibres? Describe the mechanism of nerve impulse conduction.
- OR
- Write about anatomical and histological features of central nervous system.
- Q4. Give a detailed account of cranial and spinal nerves.
- OR
- Give a comparative account of structure, function and location of sympathetic and parasympathetic nerve fibres.
- Q5. Describe the mechanism of transport of respiratory gases in our body.
- OR
- Describe the composition, function and mechanism of secretion of digestive juices from liver and pancreas.
- Q6. Describe the structure and function of Nephron in elimination of nitrogenous waste product of our body.
- OR
- Describe the molecular contractile elements and organelles involved in muscular physiology.