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SUBJECT CODE NO: - FNP-6247
FACULTY OF SCIENCE AND TECHNOLOGY
MSC. S.Y. (SEM-IV) (NEP Pattern-2023-2024) Zoology
Examination November / December 2025
General and Comparative Physiology

[Time: 1:30 Hours]

[Max. Marks: 45]

Please check whether you have got the right question paper.

N. B

- (1) Attempt all questions.
- (2) Draw well labelled diagrams wherever necessary.

Q1 Attempt the following Multiple Choice Questions**10**

- (1) Which of the following was the first form of energy production in early Earth before oxygen was abundant?
 - A) Aerobic respiration
 - B) Anaerobic respiration
 - C) Photosynthesis
 - D) Fermentation
- (2) Hormones are secreted by which of the following systems?
 - A) Nervous system
 - B) Endocrine system
 - C) Immune system
 - D) Muscular system
- (3) Digestion primarily occurs in which organ in mammals?
 - A) Stomach
 - B) Liver
 - C) Small intestine
 - D) Large intestine
- (4) The structure responsible for gas exchange in mammalian lungs.
 - A) Trachea
 - B) Bronchi
 - C) Alveoli
 - D) Diaphragm
- (5) Poikilotherms are animals whose body temperature:
 - A) Remains constant
 - B) Varies with environmental temperature
 - C) Is regulated by behavioral mechanisms only
 - D) Is higher than that of homeotherms



Q2 Short Answer Questions (solve any three)

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- (1) Autonomic nervous system.: structure and function
- (2) Blood coagulation pathways and significance.
- (3) Metamorphosis
- (4) Pigment cells: Types and roles.

**Q3 Long Answer Questions (solve any two)**

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- (1) Describe the various methods of food collection in different animal groups.
- (2) Explain the chemical regulation of heart function and the hormones.
- (3) Explain the nervous system structure and function.