

R-6.

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B.Sc. 4th Semester (New Scheme) (Fresh and Re-Appear)

Examination, May-2023

BIO-TECHNOLOGY

Paper- BT-404

Mammalian Physiology

Time allowed : 3 hours]

[Maximum marks : 40

Note : Attempt five questions in all, selecting at least one question from each unit. Question number 1 is compulsory. All questions carry equal marks.

1. Write the short notes on the following. 8×1
- (a) Respiratory quotient
 - (b) Emulsification
 - (c) ECG
 - (d) Antibody
 - (e) Muscle tone
 - (f) Micturition
 - (g) Hormone
 - (h) Target organ

Unit-I

2. Describe the mechanism of digestion, absorption and various functions of the protein in detail. 8

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3. Write the notes on any *two*: 2×4
- (a) Mechanism of exchange of gases (human). 3
 - (b) Composition & function of saliva
 - (c) Oxygen dissociation curve

Unit-II

4. What is the blood? Describe the mechanism of coagulation of the blood. 8
5. Write the notes on any *two*: 2×4
- (a) Haemopoiesis
 - (b) Composition of blood
 - (c) Heartbeat

Unit-III

6. What is muscle contraction? Describes the mechanism of muscle contraction. 8
7. Write the notes on any *two*: 2×4
- (a) Various modes of excretion
 - (b) Ornithine cycle
 - (c) Kidney

Unit-IV

8. What is the nerve impulse? Describe the mechanism of generation and propagation of nerve impulse in our body? 8

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2 × 4

9. Write the notes on any *two*:

- (a) Neurotransmitters
- (b) Thymus
- (c) Parathyroid and adrenals

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