

TILAK MAHARASHTRAVIDYAPEETH, PUNE
M.SC. IN NUTRITION & FOOD SCIENCE
EXAMINATION : NOVEMBER / DECEMBER - 2025
FIRST SEMESTER

Sub. : Basics of Anatomy & Physiology(MSC24N-113TH)

Date: 27/11/2025

Total marks: 60

Time: 10.00 am to 12.30 pm

Instructions:

- 1) All questions are compulsory and carry equal marks.
- 2) Any kind of misconduct is punishable.

Q. 1 Fill in the right answer (10)

1. Cells which have one nucleus is known as _____
 - a) Multinucleated
 - b) Centrinucleated
 - c) Uninucleated
 - d) None of the above
2. Red blood cells are also known as _____
 - a) Erythrocytes
 - b) Thrombocytes
 - c) Leucocytes
 - d) None of the above
3. Succus entericus is _____
 - a) Intestinal juice
 - b) Salivary juice
 - c) Stomach juice
 - d) None of the above
4. _____ carries complete blueprint of all the hereditary characteristics of that species.
 - a) Centrosome
 - b) Ribosome
 - c) Chromosome
 - d) Mitochondria
5. Deoxygenated blood is received from _____ to the right atrium.
 - a) Superior venacava
 - b) Inferior venacava
 - c) Both a and b
 - d) None of the above
6. _____ neuron carry the sensory impulses from periphery to central nervous system
 - a) Sensory
 - b) Afferent
 - c) Both a and b
 - d) Efferent
7. Gastric lipase is _____
 - a) Proteolytic enzyme
 - b) Lipolytic enzyme
 - c) Amylolytic enzyme
 - d) All of the above
8. Normal Pulse rate is _____
 - a) 70-80/min
 - b) 12-16/min
 - c) 100-120/min
 - d) 40-50/min
9. _____ is shaft of the bone.
 - a) Diaphysis
 - b) Epiphysis
 - c) Metaphysis
 - d) None of the above

10. Oxytocin is secreted by _____

- a) Posterior Pituitary
- b) Anterior Pituitary
- c) Adrenal gland
- d) Thyroid gland

Q. 2 Answer the following questions (Any 2) (30)

1. Describe Female Reproductive system structure and function.
2. Explain Urinary system structure and function.
3. Explain Alimentary canal structure and function.

Q. 3 Write Short Note (Any 4) (20)

1. Pancreas-structure and function.
 2. Hypertension.
 3. Cardiac cycle.
 4. Blood and its functions.
 5. Brain and Spinal cord.
 6. Tracheo-bronchial tree and Alveoli.
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