

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

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

Date: 08/05/2025

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. Powerhouse of the cell is _____
 - a) Mitochondria
 - b) Ribosomes
 - c) Golgi apparatus
 - d) Centrosome
2. Organ which continues immediately after stomach is _____
 - a) Duodenum
 - b) Jejunum
 - c) Ileum
 - d) Rectum
3. Cardiac muscle is _____
 - a) Voluntary
 - b) Involuntary
 - c) Both a and b
 - d) None of the above
4. _____ is not a part of cardiovascular system.
 - a) Cerebrum
 - b) Ventricle
 - c) Atrium
 - d) Aorta
5. Platelets are also known as _____
 - a) Leucocytes
 - b) Thrombocytes
 - c) Erythrocytes
 - d) None of the above
6. Meninges are _____
 - a) Dura mater
 - b) Pia mater
 - c) Arachnoid mater
 - d) All the above
7. 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
8. Gastric lipase is _____
 - a) Proteolytic enzyme
 - b) Lipolytic enzyme
 - c) Amylolytic enzyme
 - d) All of the above
9. Normal pulse rate is __/min
 - a) 70-80
 - b) 20-30
 - c) 40-50
 - d) 90-100

10. _____ is functional unit of nervous system.

- | | |
|------------|------------|
| a) Nephron | b) Neuron |
| c) Alveoli | d) Trachea |

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

1. Explain digestion, metabolism and absorption of carbohydrates in detail.
2. Write about classification of hormones and any one of the endocrine gland in detail.
3. Explain Digestive system structure and function.

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

1. Cardiac cycle.
 2. Types of respiration.
 3. Brain and spinal cord.
 4. Cell and cell membrane.
 5. Menstrual cycle.
 6. Kidney.
-