

May -2025 – 9131

B. Sc. Nursing Semester – I (New Course) Examination

May -2025

Anatomy and Physiology

Total Marks : 75

Time : 3 Hours

Note:

1. The number to the right indicates full marks.
2. Draw diagram wherever necessary.
3. Answer each section in the respective answer sheet only.
4. Answer written in the appropriate sectional answer book will not be assessed.

SECTION- (37 Marks)

1. Multiple Choice Questions:

(1x6=6)

1. Which of the following is responsible for muscle contraction?
A) Sodium B) Calcium C) Potassium D) Magnesium
2. S.A node is located in which chamber
A) Right Ventricle B) Right Atrium C) Left Atrium D) left Ventricle
3. What is the structural and functional unit of bone called?
A) Osteocyte B) Osteoclast C) Osteon D) Osteoblast
4. Which hormone increases blood calcium levels?
A) Calcitonin B) Insulin C) Parathyroid D) Thyroxine
5. What is the primary pacemaker ion in SA node?
A) Heme B) Chlorine C) Potassium D) Calcium
6. How many renal pelvis are there in one kidney?
A) 4 B) 3 C) 2 D) 1

2. Essay type question:

(1x10=10)

Define digestion. Explain physiology and parts of digestive system

3. Write short notes: (Any three)

(3x5=15)

1. Structure of kidney
2. Explain heart
3. Explain about bone formation
4. Female reproductive system
5. Pituitary gland and its hormones

4. Very short answers:

(3x2=6)

1. Functions of skin
2. Diagram of eye
3. Functions of CSF

SECTION- B (38 Marks)

5. Multiple Choice Questions:

(1x7=7)

1. Site of fertilization in female is
A) Cervix B) Uterus C) Villi D) Fallopian tube
2. Which part of the ear is responsible for maintaining balance
A) Stapes B) Cochlea C) Ossicles D) Semicircular canals
3. Which element is needed by the thyroid gland to produce thyroxine
A) T3 B) Calcium C) Iron D) Iodine
4. The bone that forms the forehead is called
A) Synovial B) Temporal C) Suprafrontanale D) Frontal
5. What is the function of the surfactant in lungs
A) O₂ transmission B) breathing C) reduce surface tension in alveoli D) increase blood flow
6. Which is the supporting cell of the nervous system ?
A) Schwan cell B) Microglia C) Neurone D) Neuroglia
7. Which part of the brain controls the heart?
A) Cerebellum B) Pons C) Cerebrum D) Medulla oblongata

6. Essay type question:

(1x10=10)

- a. Labeled diagram of brain (1)
- b. Explain parts of brain (5)
- c. Enlist the frontanale and sutures (1)
- d. Explain synaptic transmission (3)

7. Write short notes: (Any three)

(3x5=15)

1. Menstrual cycle
2. Cell division
3. Physiology of vision
4. Physiology of urine formation
5. Cardiac cycle

8. Very short answers:

(3x2=6)

1. Types of muscles
2. Write down the functions of thyroid gland
3. Enlist cranial nerves