

**SEP23-1-11001**  
**B.SC NURSING Sem-I Examination**  
**SEP-2023**  
**Applied Anatomy & Applied Physiology**

**Total Marks : 75**

**Time : 3 Hours**

Instructions:

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 inappropriate sectional answer book will not be assessed in any case

Section - A : Applied Anatomy (37)

Que. 1      Multiple Choice Question (MCQ) (6 x 1 = 06)

- i.      Structural and functional unit of nervous system
  - a.      Nephron
  - b.      Cell
  - c.      Neuron
  - d.      Alveoli
- ii.     How many bones does human ankle has ?
  - a.      7
  - b.      6
  - c.      9
  - d.      8
- iii.    Largest organ of the body ?
  - a.      Liver
  - b.      Heart
  - c.      Brain
  - d.      Skin
- iv.     What is primary pacemaker of heart ?
  - a.      SA Node
  - b.      AV Node
  - c.      Bundle of Hiss
  - d.      Purkinje Fibers
- v.      Which of the following is a balancing organ in humans ?
  - a.      Eardrum
  - b.      Vestibular region
  - c.      Cochlea
  - d.      Organ of corti
- vi.    How many pairs of the spinal nerve are found in human ?
  - a.      33
  - b.      31
  - c.      13
  - d.      12

Que. 2      Essay type question (10)

What do you mean by Cell ? Explain cell division in details.

Que. 3      Short Answer Type Question (Any Three) (3 x 5 = 15)

- a.      Structure of Heart
- b.      Skin
- c.      Joints
- d.      Brain

Que. 4      Very Short Answer type Question (3 x 2 = 06)

- a.      Draw a labeled diagram of kidney and explain in brief
- b.      Organ of respiratory system
- c.      Structure of eye

- Que. 5 Multiple Choice Question (MCQ) (6 x 1 = 06)
- i. Which of the following is the thinnest blood vessel ?
    - a. Artery
    - b. Arterioles
    - c. Meta Arterioles
    - d. Capillary
  - ii. Pulmonary vein carries
    - a. Deoxygenated blood
    - b. Mixed Blood
    - c. Oxygenated blood
    - d. Pure Blood
  - iii. Where does the arterial blood come from those supplies to visceral pleura ?
    - a. Bronchial vein
    - b. Intercostals nerves
    - c. Bronchial arteries
    - d. The costodiaphragmatic recesses
  - iv. What is Human Physiology ?
    - a. Human physiology is the scientific study of the mind and behavior
    - b. Human physiology is the study of the internal and external structures of the human body
    - c. Human physiology is the study of the functions of body parts
    - d. Human physiology is the study of microscopic organisms
  - v. Which of the following cells in the pancreas make insulin ?
    - a. Epithelial cells
    - b. Hepatic cells
    - c. Germ cells
    - d. Islet cells
  - vi. Which of the following is the largest gland in human body ?
    - a. Thymus
    - b. Kidneys
    - c. Liver
    - d. Pancreas
  - vii. Which of the following hormone helps in the secretion of HCL from stomach ?
    - a. Gastrin
    - b. Secretin
    - c. Pepsin
    - d. Renin
- Que. 6 Essay type question (10)  
Explain the mechanisms of hearing.
- Que. 7 Short Answer Type Question (Any Three) (3 x 5 = 15)
  - a. Menstrual cycle
  - b. Automatic Nervous System
  - c. Cerebrospinal fluid (CSF)
  - d. Urine formation
- Que. 8 Very Short Answer type Question (3 x 2 = 06)
  - a. Define hormone. List various types of hormone and its function.
  - b. Gastric Juice
  - c. Composition of blood

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