Code/M/177-A & B

B.Sc. Nursing First Semester Examination-2025 (I)

Subject- Applied Anatomy & Applied Physiology

[Time: 03:00 Hrs] [Max.Marks: 75]

Section A (Applied Anatomy) 37 Marks

1. **MCQ –** (1X6=6 Marks)

A. Trigone is a part of -
(a) Renal cortex (b) Renal medulla (c) Urethra (d) Bladder

B. Which of the following cells in the Pancreas make Insulin –
(a) Epithelial cells (b) Hepatic cells (c) Germ cells (d) Islet cells

C. Which of the following is the inner most layer of human eye –
(a) Retina (b) Choroid (c) Sclera (d) Cornea

D. Which of the following organ is known as Wind pipe –
(a) Larynx (b) Trachea (c) Lung (d) Bronchi

E. How many bones does an adult human skeletal have –
(a) 205 (b) 206 (c) 207 (d) 209

F. Which of the following membrane is responsible for the protection of Heart –
(a) Epicardium (b) Endocardium (c) Myocardium (d) Pericardium

2. Draw the labelled diagram of alimentary canal and accessory organs of digestion and describe in detail about stomach under following headings –
(a) Situation (b) Parts (c) Blood supply (10 Marks)

3. **Write short notes – (any 3)** (5x3=15 Marks)
(a) Structure of Uterus
(b) Features of skeletal, smooth and cardiac muscle .
(c) Adrenal glands
(d) Structure of neurons.

4. **Short Answer Question –** (2x3=6 Marks)
(a) Give two example of a ball and socket joint.
(b) Name any two hormones secreted by Pituitary gland.
(c) Name the muscle of the respiration.

Section B (Applied Physiology) 38 Marks

1. **MCQ –** (1X7=7 Marks)

A. Which of the following is not the function of the Liver –
(a) Carbohydrate metabolism (b) Excretion of bilirubin
(c) Nucleic acid metabolism (d) Synthesis of bile salts and activation of vitamin D.

B. Which is not a function of Skeleton –
(a) Breathing (b) Hearing (c) Excretion (d) Blood formation

C. The posterior pituitary –
(a) Produce Oxytocin (b) Secretes trophic hormones
(c) Secretes neurohormone (d) Is under the control of hypothalamic releasing neurohormone.

D. Lecithin is a substance present in –
(a) Nasal chamber (b) Bronchial tubes (c) Oropharynx (d) Alveoli

E. Cardiac output is about –
(a) 3 liters of blood (b) 15 liters of blood (c) 50 liters of blood (d) 5 liters of blood

F. Absorption of fats and glycerol takes place in –
(a) Ileum (b) Stomach (c) Large intestine (d) Lacteals

G. Last product in the process of blood coagulation is –
(a) Thrombin (b) Thromboplastin (c) Fibrin (d) Prothrombin

2. Explain the process of digestion of food ? (10 Marks)

3. **Write short notes – (any 3)** (5x3=15 Marks)
(a) Clotting mechanism of blood
(b) Homeostasis function of Kidney
(c) Function and component of Blood
(d) Hormone secreted by anterior Pituitary and their function

4. **Define - (any three) –** (2x3=6 Marks)
(a)Thermogenesis (b) GFR (c) Tissue (d) Cyanosis

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