

. MEDICAL**[BSCN 1024]****OCTOBER 2024****Sub. Code: 2302****B.Sc. (Nursing) DEGREE EXAMINATION****FIRST SEMESTER****PAPER II – APPLIED ANATOMY & APPLIED PHYSIOLOGY*****Q.P. Code: 652302*****Time : Three Hours****Maximum : 75 Marks****Answer Section A and Section B Separately****Answer all the Questions****SECTION – A (37 Marks)**
(APPLIED ANATOMY)**I. Multiple Choice Questions:****(6 x 1 = 6)**

1. The basic structural unit of the brain is
A) Neuron B) Loop of Henle C) Pyramid D) Nephron
2. The epithelium lining the intestines is
A) Simple epithelium B) Transitional epithelium
C) Columnar epithelium D) Cuboidal epithelium
3. Which of the following is a part of the brainstem?
A) Hypothalamus B) Cerebellum C) Spinal cord D) Pons
4. Masseter muscle is attached to
A) Ribs B) Femur C) Humerus D) Mandible
5. Islets of Langerhans are seen in
A) Pancreas B) Heart C) Liver D) Kidney
6. The branches of arch of aorta _____
A) Left common Carotid artery B) Left subclavian artery
C) Brachiocephalic artery D) All of the above

II. Essay:**(1 x 10 = 10)**

1. Describe Uterus under following headings:
a) Location and Relations b) Normal position c) Supports
d) Blood supply d) Applied Anatomy.

III. Short answers on:**(3 x 5 = 15)**

1. Pericardial sinuses.
2. Corpus callosum.
3. Median cubital vein.

IV. Very short answers on:**(3 x 2 = 6)**

1. Types of Cartilage with examples.
2. Terminal branches of brachial artery.
3. Which major opening of the diaphragm is present within the central tendon?
_____ level of the vertebral level.

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SECTION – B (38 Marks)
(APPLIED PHYSIOLOGY)**I. Multiple choice Questions:****(7 x 1 = 7)**

1. What pigment gives yellow color to the feces
A) Urobilin B) Bilirubin C) Stercobilin D) Biliverdin
2. Blood testes barrier is formed by
A) Basal lamina and Leydig cells
B) Basal lamina and spermatogonia
C) Tight junctions between adjacent Leydig cells
D) Tight junctions between adjacent Sertoli cells
3. Which is an exchange vessel?
A) Artery B) Vein C) Capillary D) Venule
4. The term 'Apnea' refers to
A) Slow breathing B) Absence of breathing
C) Difficulty in breathing D) Fast breathing
5. What does P wave in ECG denote?
A) Atrial depolarization B) Ventricular depolarization
C) Atrial repolarization D) Ventricular repolarization
6. Main excitatory transmitter in the brain and spinal cord and is responsible for about 75% of excitatory synapses in the brain
A) Aspartate B) Glutamate
C) Gamma-aminobutyric acid (GABA) D) Glycine
7. Select the correct combination
A) G cell: Renin B) Chief cell: Insulin
C) Brush border enzyme: Enterokinase D) Mucous cell: Hydrochloric acid (HCl)

II. Essay:**(1 x 10 = 10)**

1. List the different phases of the cardiac cycle mentioning the changes in each phase.

III. Short answers on:**(3 x 5 = 15)**

1. List the difference between innate and adaptive immunity.
2. What is Menstrual Cycle? Explain the uterine changes taking place during the different phases Menstrual cycle.
3. Structure and functions of Skin.

IV. Very short answers on:**(3 x 2 = 6)**

1. List any two non-respiratory functions of Respiratory System.
2. Write any four functions of Liver.
3. List the two types of Nephrons and mention any two differentiating features.

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