

MEDICAL

[BSCN 1223]

DECEMBER 2023**Sub. Code: 2302****(OCTOBER 2023 EXAM SESSION)****B.Sc. (Nursing) DEGREE EXAMINATION****(Revised Regulations for the candidates admitted from 2022-2023 onwards)****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)****Choose one correct answer in the Answer Script. No overwriting should be done. Choice should be given in Capital Letters.**

- Principal muscle of respiration
A) Sternocleidomastoid B) Abdominal muscles C) Diaphragm D) Scalenus muscles
- Name the epithelium lining the urinary bladder
A) Simple epithelium B) Transitional epithelium
C) Columnar epithelium D) Cuboidal epithelium
- Right side subclavian Artery is a branch of
A) Arch of Aorta B) Carotid Artery C) Brachiocephalic trunk D) Brachial Artery
- Which of the following nerve supply the Deltoid muscle?
A) Median nerve B) Radial nerve C) Ulnar nerve D) Axillary nerve
- Which of the following is the feature of cardiac muscle?
A) Multinucleated B) Intercalated disc C) Branched D) Both B and C
- Lower extend of adult spinal cord.
A) L 1 B) L 3 C) S 2 D) First coccyx

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

- Mention the Endocrine glands and describe in detail about the Thyroid gland with applied anatomy.

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

- Structure and Lymphatic drainage of Mammary gland.
- Pleura and its recesses.
- Diaphragm.

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

- Parts of Fallopian tube.
- Layers of Skin.
- Difference between Skeletal muscles and Cardiac muscle.

... 2 ...

SECTION – B (38 Marks)
(APPLIED PHYSIOLOGY)

I. Multiple choice Questions: (7 x 1 = 7)
Choose one correct answer in the Answer Script. No overwriting should be done. Choice should be given in Capital Letters.

- Neurotransmitters are substances
 - produced by muscles
 - signal molecules released at synapses
 - carry electrical impulses
 - found in neurons with myelin sheaths
- The difference in voltage between the inside and outside of a resting cell is called
 - Resting potential
 - Action potential
 - Depolarization
 - Repolarization
- Corpus callosum connects
 - Two cerebral hemispheres
 - Diencephalon and midbrain
 - Medulla and Spinal cord
 - Pons and Medulla
- Which of the following is NOT a plasma protein?
 - Fibrinogen
 - Albumin
 - Globulin
 - Fibronectin
- Name the term given to the failure of bone marrow to produce RBC
 - Aplastic anemia
 - Hemolytic anemia
 - Thalassemia
 - Megaloblastic anemia
- These cells of the testes secrete testosterone
 - Sertoli cells
 - Cells of germinal epithelium
 - Leydig cells
 - Secondary spermatocytes
- In man, Cryptorchidism is the condition when
 - testes do not descend into the scrotum
 - there are two testes in each scrotum
 - testes degenerates in the scrotum
 - testes enlarges in the scrotum

II. Essay: (1 x 10 = 10)

- Describe in detail with a help of diagram the mechanism of Skeletal Muscle contraction.

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

- What is Glomerular Filtration Rate? Add a note on the factors affecting GFR.
- Conducting system of the Heart.
- Write in detail about Visual pathway.

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

- Define Peristalsis.
- What is chloride shift?
- Mention any two clinical features of Acromegaly.
