



DCS-22271

Seat No. _____

Basic B. Sc. Nursing (Sem. I) Examination

August - 2022

Anatomy and Physiology

Time : **2:30** Hours]

[Total Marks : **75**

- Instructions:** (1) Figures to the right indicate marks.
(2) Draw neat labelled diagram wherever necessary.

Section-I - (Applied Anatomy) (37 Marks)

- 1** MCQ: (Compulsory) **6×1=6**
- (a) Average life span of RBC.
 - (i) 102 days (ii) 120 days
 - (iii) 210 days
 - (b) Heart is situated in which cavity ?
 - (i) Thoracic cavity (ii) Abdominal Cavity
 - (iii) Pelvic cavity
 - (c) Largest commissural fibers of cerebrum.
 - (i) Corpus callosum (ii) Corpus striatum
 - (iii) Claustrum
 - (d) Double vision is caused by abnormality of which cranial nerve.
 - (i) Facial (ii) Trochlear
 - (iii) Trigeminal
 - (e) The bone that protect the knee joint.
 - (i) Fibula (ii) Patella
 - (iii) Ulna
 - (f) Absence of sperm.
 - (i) Zoospermia (ii) Oligospermia
 - (iii) Azoospermia

2 Long Essay. (Any one out of two) 1×10=10

(a) Explain in detail the structure of heart with the help of diagram.

OR

(b) Explain the structure of digestive system with a neat labelled diagram.

3 Write Short Notes on: (Any three out of five) 3×5=15

(a) Structure of Kidney with labeled diagram

(b) Neuron

(c) Uterus

(d) Synovial Joint

(e) Cell Structure

4 Write very short answers: (Any three out of five) 3×2=6

(a) Types of muscles and its functions

(b) Types of Tissues

(c) List out the hormones secreted by pituitary glands

(d) Functions of skin

(e) Hyaline cartilage

Section-II - (Applied Physiology) (38 Marks)

5 Multiple choice questions. 7×1=7

(1) Bile is secreted from.

(a) Gall Bladder

(b) Stomach

(c) Liver

(d) Intestine

(2) Insulin is produced by-

(a) Alpha Cells

(b) Beta Cells

(c) Lobules

(d) Hepatocytes

(3) Normal PH of Blood is-

(a) 7.35 to 7.45

(b) 1.3 to 1.4

(c) 4.35 to 4.45

(d) 2.35 to 3.35

- (4) The first cranial nerve is-
- (a) Olfactory (b) Vagus
(c) Ophthalmic (d) Auditory
- (5) Haemoptysis is-
- (a) Blood in sputum (b) Blood in vomitus
(c) Blood in urine (d) Blood in faeces
- (6) Normal Tidal Volume of Lungs is-
- (a) 500 ml (b) 1000 ml
(c) 1500 ml (d) 200 ml
- (7) Oxygenated blood from lungs is brought to left atrium by-
- (a) Pulmonary veins (b) Pulmonary artery
(c) Coronary artery (d) Aorta

6 Long Essay. (Any one) 1×10=10

- (a) Functions of the Stomach
(b) Functions of the Kidney

7 Short Essay: (Any three) 3×5=15

- (a) Functions of Small Intestine
(b) Functions of Gastric Juice
(c) Functions of the Mouth, Pharynx and Esophagus
(d) Physiology of Respiration

8 Short Answers: (Any three) 3×2=6

- (a) Composition of Bile
(b) Functions of gall bladder
(c) Main Functions of the Kidney
(d) Renin Angiotensin - Aldosterone System.
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