



MD-5031

Seat No. 1637

First Year B. Sc. (Nursing) (Sem. I) Examination

September - 2022

Applied Anatomy & Applied Physiology

Time : 3 Hours ]

[ Total Marks : 75

- Instructions :**
- (1) The number to the right indicates full marks.
  - (2) Draw diagrams wherever necessary.
  - (3) Answer each section in the respective answer sheet only.
  - (4) Answers written in the inappropriate sectional answer book will not be assessed in any case.

**SECTION - A**  
**(Anatomy)**

**37 Marks**

- 1 Multiple Choice Questions : 6**
- (1) Which organelle is called "Power house of cell"  
(A) Nucleus (B) Golgi body  
(C) Mitochondria (D) Ribosome
  - (2) Structural and Functional unit of kidney is called  
(A) Nephron (B) Neuron  
(C) Sarcomere (D) Alveoli
  - (3) Deoxygenated blood from the body via superior and inferior vena cava is received in  
(A) Left Ventricle (B) Right Ventricle  
(C) Left Atrium (D) Right Atrium

- (4) Largest artery of human body  
(A) Aorta (B) Carotid  
(C) Subclavian (D) Pulmonary
- (5) The gland that is situated below hypophyseal fossa of sphenoid bone is  
(A) Adrenal Gland (B) Thyroid gland  
(C) Pituitary gland (D) Pancreas
- (6) Meninges are the covering of  
(A) Brain and spinal cord  
(B) Kidney  
(C) Lungs  
(D) Heart

2 Essay type question : 10

Enlist the organ of renal system. Describe the anatomy of kidney.

3 Short answer question : (any three) 3×5=15

- (i) Cell structure  
(ii) Structure of heart  
(iii) Eye  
(iv) Classification of joint

4 Very short answers : 3×2=6

- (i) Types of tissue  
(ii) List out Hormones secreted by pituitary gland  
(iii) Enlist the organ of digestive system.

SECTION - B  
(Physiology)

38 Marks

7

5 Multiple Choice Questions

- (1) Immunoglobulin are  
(A) Glycoprotein (B) Polysaccharides  
(C) Lipoprotein (D) Amino Acid
- (2) Which vitamin does convert prothrombin to thrombin  
(A) Vitamin A (B) Vitamin C  
(C) Vitamin K (D) Vitamin D
- (3) Mitosis is a condition of  
(A) Cell breakdown  
(B) Cell division without reduction  
(C) Cell death  
(D) Cell division with half chromosomes
- (4) Natural pacemaker of heart  
(A) AV node (B) SA Node  
(C) Bundle of His (D) Purkinje fibre
- (5) Which hormone is also called thyroxin ?  
(A)  $T_1$  (B)  $T_2$   
(C)  $T_3$  (D)  $T_4$
- (6) Heat regulating center of the human body  
(A) Cerebrum (B) Cerebellum  
(C) Hypothalamus (D) Thyroid
- (7) The organ which is responsible for the body balance is  
(A) Eye (B) Ear  
(C) Mouth (D) Tongue

Essay type questions : **5+5=10**

- (1) Describe heart circulation.
- (2) Discuss stages of Cardiac cycle.

Short answer questions : (any **three**) **3×5=15**

- (i) Functions of respiratory organ
- (ii) Gastric juice
- (iii) Cerebrospinal fluid
- (iv) Menstrual cycle

Very short answers : **3×2=6**

- (i) Blood clotting factors
  - (ii) Functions of kidney
  - (iii) Classify nervous system.
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