

**First Semester B.Sc Nursing Degree Regular/Supplementary
Examinations June 2023
Paper II – Applied Anatomy and Applied Physiology**

Time: 3 Hrs

Total Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Section A – Applied Anatomy

Q.P. CODE: 122010

Max. Marks: 37

Multiple Choice Questions

(6x1=6)

(choose the most appropriate answer from the options given)

1. Axillary nerve is a branch of _____ cord of brachial plexus
a) Medial b) Lateral c) Posterior d) Anterior
2. Coronary sinus opens into _____
a) Right atrium b) Left atrium c) right ventricle d) Left ventricle
3. Ear pinna is an example of _____ cartilage
a) Hyaline b) Elastic c) White fibro d) None
4. Functional area number 4 of cerebral cortex is:
a) Visual b) Auditory c) sensory d) Motor
5. Follicle stimulating hormone is secreted by _____ gland
a) Pituitary b) Thyroid c) Adrenal d) Pancreas
6. Intercalated disc is present in _____
a) Skeletal muscle b) Smooth muscle c) Cardiac muscle d) erector pilae muscle

Essay

(1x10=10)

7. Mention the parts of urinary system. Describe kidney in detail.

(2+8)

Short notes

(3x5=15)

8. Synovial joints
9. Nasal cavity
10. Cerebellum

Differentiate between

(3x2=6)

11. Duodenum and Ileum
12. Microscopic structure of lymph node and Spleen
13. Testis and Ovary

(PTO)

Section B – Applied Physiology

Q.P. CODE: 123010

Max. Marks: 38

Multiple Choice Questions

(7x1=7)

(choose the most appropriate answer from the options given)

1. Normal WBC count is cells/mm³ of blood
a) 5-6 million b) 4000-11000 c) 1-2 Lakhs d) 300-500
2. The hormone responsible for milk production by the mammary gland is
a) Oxytocin b) Progesterone c) Prolactin d) Calcitonin
3. Exchange of gases occurs in part of the lungs
a) Alveolus b) Terminal bronchiole c) Respiratory bronchiole d) Bronchiole
4. Receptors for colour vision are.....
a) Rodes b) Bipolar cells c) Cones d) Ganglion cells
5. The reflex arc consists of
a) Receptor b) Effector organ
c) Afferent and efferent neurons d) All of the above
6. The WBC having phagocytic function is
a) Neutrophil b) Eosinophil c) Basophil d) Lymphocyte
7. Under resting conditions, the cardiac output is
a) 1-2 L/ min b) 3-4L/min c) 5-6 L/min d) 6-7L/min

Essay

(1x10=10)

8. Describe sarcomere. Explain briefly the mechanism of skeletal muscle contraction. Add a note on rigor mortis (3+2+5)

Short notes

(3x5=15)

9. With the help of diagram, explain the steps of erythropoiesis.
10. Describe myopia and hypermetropia. (2.5+2.5)
11. Glomerular Filtration Rate (GFR): definition, normal value and three factors regulating it. (1+4)

Give reasons for the following

(3x2=6)

12. Surfactant is necessary for lung function.
13. Bile salts are essential for health.
14. Pituitary failure can cause dwarfism.
