

Reg. No: .....

**First Semester B.Sc Nursing Degree Regular/Supplementary  
Examinations April 2024**

**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. Following are the parts of brainstem except  
a) Cerebellum                      b) Midbrain                      c) Medulla                      d) Pons
2. Hassall's corpuscles are found in  
a) Palatine tonsil                      b) Lymph node                      c) Spleen                      d) Thymus
3. Following nerve is a cranial nerve  
a) Axillary                      b) Median                      c) Tibial                      d) Facial
4. Pulmonary veins open into  
a) Left atrium                      b) Left ventricle                      c) Right atrium                      d) Right ventricle
5. Fertilization takes place in the following part of fallopian tube  
a) Ampulla                      b) Isthmus                      c) Intramural                      d) Infundibulum
6. Following is the covering of testes  
a) Tunica adventitia                      b) Tunica albuginea                      c) Tunica intima                      d) Tunica media

**Essay**

(1x10=10)

7. Mention the parts of respiratory system. Describe right lung in detail

(2+8)

**Short notes**

(3x5=15)

8. Blood supply of heart
9. Ovary
10. Spinal cord

**Differentiate between**

(3x2=6)

11. Microscopic anatomy of thick skin and Thin skin
12. Jejunum and Ileum.
13. Eversion and Inversion

(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. The normal serum sodium level is  
a) 4 meq/L      b) 109 meq/L      c) 142 meq/L      d) 8 mg/dL
2. Intercalated disks are present in which muscle  
a) Skeletal      b) Cardiac      c) Smooth      d) All the muscles
3. Cretinism is due to deficiency of ..... hormone  
a) Growth      b) Thyroid      c) Prolactin      d) PTH
4. Steatorrhea refers to  
a) Fatty stools    b) Watery stools    c) Blood in stools    d) Mucus in stools
5. The first heart sound occurs in  
a) Iso-volumetric contraction      b) Rapid ejection phase  
c) Isovolumetric relaxation      d) Atrial systole
6. Respiratory distress syndrome of newborn is due to  
a) Deficient surfactant      b) Lung collapse  
c) Lung infection      d) Pulmonary hypertension
7. Glomerular filtration rate is influenced by  
a) Hydrostatic capillary pressure      b) Capillary oncotic pressure  
c) Bowman's space hydrostatic pressure    d) All of them

**Essay**

**(1x10=10)**

8. What is the normal respiratory rate. Describe the regulation of respiration. Add a note on hypoxia. (1+6+3)

**Short notes**

**(3x5=15)**

9. Erythropoiesis
10. Functions of the cranial nerves
11. Functions of liver

**Give reasons for the following**

**(3x2=6)**

12. Cardiac muscle cannot be tetanized
13. Bile salts are essential for health
14. Middle ear infections can cause deafness

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