

**Q.P. CODE: 112010**

**Reg. No: .....**

**First Year B.Sc Nursing Degree Supplementary Examinations  
October 2023**

**Physiology  
(2016 Scheme)**

**Time: 3 Hrs**

**Max. 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*

**Essay:**

**(12)**

1. Define erythropoiesis. Discuss the stages of erythropoiesis and the factors affecting it.  
Add a note on anemia. (1+5+4+2)

**Short essays:**

**(2x7=14)**

2. Define Cardiac output. What is its normal value. Describe the factors regulating cardiac output. (1+1+5)
3. Trace the visual pathway and the effects of lesion at various levels in the pathway. (4+3)

**Short notes:**

**(5x5=25)**

4. Functions of cell membrane
5. Neuromuscular transmission
6. Cerebrospinal fluid
7. Spinothalamic pathways.
8. Functional Residual Capacity

**Answer briefly:**

**(3x4=12)**

9. Functions of liver
10. Cystometrogram
11. Functions of testosterone

**Differentiate between:**

**(3x4=12)**

12. Isometric and Isotonic muscle contraction
13. Humoral immunity and Cell mediated immunity
14. Pituitary dwarf and Thyroid dwarf

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