

Q.P. CODE: 112019

Reg. No:

**First Year B.Sc Medical Microbiology & Medical Biochemistry Degree
Supplementary Examinations September 2022**

Paper II – Physiology

(2016 Scheme)

(Common for both specialty)

Time: 3 Hrs

Max. Marks: 50

- *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 table/diagrams/flow charts wherever necessary*

Essays:

(2x10=20)

1. Define and classify hypoxia. Discuss the causes and characteristic features of different types of hypoxia with examples.
2. Compare skeletal, smooth and cardiac muscles. Explain the molecular mechanism of contraction in skeletal muscle.

Short Notes:

(2x5=10)

3. Define Cardiac output. What is its normal value. Write briefly about mechanism of regulation of cardiac output.
4. Which cell in stomach secretes Hydrochloric acid. Explain the mechanism of HCl secretion. List different phases of secretion of gastric juice.

Answer briefly:

(10x2=20)

5. Functions of WBC.
6. Define Glomerular Filtration Rate. Write the normal value of GFR.
7. Milk ejection reflex.
8. Explain actions of growth hormone.
9. Draw and label visual pathway.
10. Actions of estrogen.
11. Role of hypothalamus in temperature regulation.
12. Reticuloendothelial system.
13. Juxta glomerular apparatus.
14. Monosynaptic reflex.
