

**Third Year M.Sc Medical Physiology Degree Regular/Supplementary
Examinations October 2024**

General Physiology, Haematology and Cardiovascular System

Time: 3 hrs

Max. Marks: 100

- *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*

Essay:

(20)

1. Define Cardiac output. Give its normal value. Explain the factors regulating cardiac output. Describe the methods of measurement of Cardiac output.

Short Essays:

(8x10=80)

2. Explain the various theories of ageing.
3. Describe the origin and spread of cardiac impulse in human heart. Add a note on heart blocks
4. Explain the fibrinolytic mechanism. Describe the role of heparin as anticoagulant.
5. Describe the various active transport mechanisms across cell membranes with suitable examples.
6. Name the plasma proteins. Give its normal values. Describe the functions of plasma proteins
7. Explain the short term regulation of blood pressure. Add a note on hypertension
8. Describe the tissue macrophage system. Enumerate their functions
9. Explain the complications of blood transfusion. Add a note on crossmatching
