

Q.P.Code:301379

Reg. No:.....

**Third Year M.Sc Medical Physiology Degree Examinations
September 2018**

General Physiology, Haematology and Cardiovascular System

Time: 3 hrs

Max. Marks: 100

- *Answer all the questions*
- *Draw diagrams wherever necessary*

Essay: (20)

1. Define cardiac cycle. Explain the mechanical events of cardiac cycle correlating with ventricular pressure and volume changes.

Short Essays: (8x10=80)

2. Describe the cardiovascular adjustments during moderate exercise.
3. Explain the genetics and significance of Rh blood grouping.
4. Define erythropoiesis. Explain the changes taking place during erythropoiesis.
5. Define cardiac output. Give the normal values. Explain the regulation of cardiac output.
6. List the various modes of transport of materials across cell membrane. Explain primary and secondary active transport mechanism with examples.
7. Define anticoagulants. Mention the types and explain the mechanism of action of anticoagulants. Add a note on uses of anticoagulants.
8. Describe the role of platelets in hemostasis.
9. Define heart rate. Give its physiological variations. Explain the mechanism of regulation of heart rate during moderate exercise.
