

Q.P. Code: 103379

Reg. No:.....

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

(FOUNDATION COURSE)

Paper III – Physiology

Time: 3 hrs

Max. Marks: 70

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

Essay:

(2x10=20)

1. Describe the stages of erythropoiesis. Explain the factors influencing erythropoiesis.
(5+5)
2. Define cardiac cycle. Explain the mechanical events taking place during cardiac cycle correlating with intra ventricular pressure and volume changes. (2+5+3)

Short Notes:

(5x6=30)

3. Chemical regulation of respiration.
4. Hormonal regulation of blood calcium level.
5. List the functions of basal ganglia. Explain any one function.
6. Define glomerular filtration rate and explain the factors affecting it
7. Explain the stages of spermatogenesis. Add a note on factors affecting spermatogenesis.

Answer briefly:

(5x4=20)

8. Name the plasma proteins. List their functions.
9. Compare the actions of sympathetic and parasympathetic nervous system on cardiovascular system.
10. Complications of mismatched blood transfusion.
11. Composition and functions of bile.
12. Types of refractive errors of the eyes and their correction.
