

Q.P.Code:103379

REG. No:.....

**First Year M.Sc Medical Physiology Supplementary Degree Examinations,
February 2015
(FOUNDATION COURSE)**

Time: 3 hrs

Max. Marks:- 70

PAPER III - PHYSIOLOGY

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

Essay:

(2x10=20)

1. Describe the origin, course, termination and functions of pyramidal tract. Add a note on motor homunculus. (7+3=10)
2. Define cardiac cycle. Explain the mechanical events taking place during cardiac cycle correlating with intra ventricular pressure and volume changes. (2+5+3=10)

Short Notes:

(5x6=30)

3. Oxygen-haemoglobin dissociation curve and factors affecting it.
4. Hormonal regulation of blood calcium level.
5. Functions of saliva and regulation of secretion of saliva.
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. Peculiarities of renal circulation.
9. Compare the actions of adrenaline and nor-adrenaline on cardiovascular system.
10. Inheritance of ABO blood group.
11. Hypoxia
12. Types of colour blindness and tests for colour blindness.
