

Q.P. Code: 103379

Reg. No:.....

**First Year M.Sc Medical Physiology Degree Regular/Supplementary
Examinations December 2020**

(FOUNDATION COURSE)

Paper III – Physiology

Time: 3 hrs

Max. Marks: 70

- *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:

(2x10=20)

1. Describe the organization of respiratory centers. Explain the neuronal regulation of respiration. (4+6)
2. Explain the origin, course, termination and functions of dorsal column sensory pathways. Explain the sensory changes taking place in the lower limbs when there is a hemi section of spinal cord at the level of sacral segment 1 on the left side.(6+4)

Short Notes:

(5x6=30)

3. Transportation of carbon dioxide from the tissues to the lungs by the blood.
4. Explain the genetics and significance of ABO blood grouping.
5. Re absorption of water in the renal tubule.
6. Metabolic actions of cortisol
7. Ovarian cycle and its control by gonadotropic hormones.

Answer briefly:

(5x4=20)

8. List the properties of sensory receptors. Explain any one property.
9. Explain myasthenia gravis and what is the physiological basis for its treatment.
10. Explain endemic goitre. Mention the causes and management of goitre.
11. Define anaemia. Classify anaemia based on aetiology.
12. Name the stages of deglutition. Explain the second stage.
