

**Q.P. Code: 103001****Reg. No.:****First Professional MBBS Degree Regular/Supplementary Examinations
August 2019****Physiology - Paper I****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

Long essay**(10)**

1. Eighteen hours after arrival at an altitude of 12000 feet, a man has headache, irritability, insomnia, breathlessness, nausea and vomiting. Answer the following:

- What is he suffering from
- What are the changes taking place in the body systems during acclimatization to high altitude
- Explain the physiological basis of these changes (1+4+5)

Short essays**(2x5 =10)**

2. Short term regulation of blood pressure
3. Reticulo-endothelial system

Answer briefly**(5x3=15)**

4. Defecation reflex
5. Fibrinolytic system
6. Role of skin in heat loss mechanisms
7. Factors affecting venous return
8. Pacemaker potential

Draw and label**(2x2½ =5)**

9. Cystometrogram
10. Physiological organization of Respiratory Centers

Explain the physiological basis of the following**(5x2=10)**

11. Physiological dead space
12. Neutrophilia in acute bacterial infections
13. Plateau phase of Action potential in Ventricular Myocyte.
14. Entero-hepatic circulation
15. Severe tachycardia is harmful to the individual
