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)(2x5 = 10)Short essays 2. Short term regulation of blood pressure 3. Reticulo-endothelial system **Answer briefly** (5x3=15)4. Defecation reflex 5. Fibrinolytic system 6. Roll of skin in heat loss mechanisms 7. Factors affecting venous return 8. Pacemaker potential Draw and label $(2x2\frac{1}{2} = 5)$ 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
