Q.P. Code: 103001	Reg. no.:
First Professional MBBS Degree Supple	ementary Examinations, February 2014
PHYSIOLOGY – Paper I	
Time: 3 Hours • Answer all question • Draw Diagrams wh	
Long essay	(10)
 1. A 40 years old man was admitted to hospital with complaints of difficulty in breathing and shortness of breath following a head injury. Answer the following: With the help of diagrams describe two types of periodic breathing Explain the physiological basis for the changes in periodic breathing Describe the role of peripheral chemo receptors in regulation of normal respiration (3+2+5=10) 	
Short essays	(2x5 = 10)
 Discuss the factors affecting cardiac output Describe the counter current multiplier in th 	_
Answer briefly	(5x3=15)
4. Hypoxic hypoxia5. Proteolytic pancreatic enzymes6. Auto regulation of glomerlular filtration rate7. First and second heart sounds8. Gastric emptying time	
Draw and label	$(2x2\frac{1}{2}=5)$
Left Ventricular pressure changes recorded 10. Effect of pH on the oxygen – hemoglobin di	· · ·
Explain the physiological basis of the follow	ving (5x2=10)
11. Oxygen debt12. Receptive relaxation13. Prolonged standing results in fainting attack14. Prolonged action potential in cardiac muscl15. Protective effect of vaccination	
