Q.P. Code: 103001	Reg. No.:
First Professional MBBS Degree Supplementary Examinations January 2019	
Physiology - Paper I	
Time: 3 Hours • Answer all questions	Total Marks: 50
• Draw Diagrams wherever Long essay	er necessary (10)
 A 16 years old boy had continuous oozing of blood following tooth extraction for caries. Answer the following: 	
 What is the probable cause of the bleeding. Describe the extrinsic pathway of clotting using a schematic diagram. Mechanism of action of heparin as an anticoagulant. Role of vitamin K in clotting. Explain why blood does not normally clot inside the body (1+3+2+2+2) 	
Short essays	(2x5=10)
 Describe briefly the mechanical events of cardiac Factors influencing glomerular filtration. 	cycle.
Answer briefly	(5x3=15)
 Second stage of deglutition Differentiate between Haldane and Bohr effect. Factors affecting diffusion across respiratory mem Entero-hepatic circulation Glomerulo-tubular feedback 	brane
Draw and label	$(2x2\frac{1}{2}=5)$
9. ECG in lead II10. Pressure changes during normal respiratory cycle	

(5x2=10)

Explain the physiological basis of the following

15. Tubular maximum and renal threshold for glucose.

11. Change in heart rate during exercise

12. Mucosal barrier and peptic ulcer

13. Hypoxia in cyanide poisoning

14. Reactive hyperemia