

Q.P. Code: 103001

Reg. No.:

**First Professional MBBS Degree Supplementary Examinations
January 2019****Physiology - Paper I****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

Long essay**(10)**

1. 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)**

2. Describe briefly the mechanical events of cardiac cycle.
3. Factors influencing glomerular filtration.

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

4. Second stage of deglutition
5. Differentiate between Haldane and Bohr effect.
6. Factors affecting diffusion across respiratory membrane
7. Entero-hepatic circulation
8. Glomerulo-tubular feedback

Draw and label**(2x2½ =5)**

9. ECG in lead II
10. Pressure changes during normal respiratory cycle

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

11. Change in heart rate during exercise
12. Mucosal barrier and peptic ulcer
13. Hypoxia in cyanide poisoning
14. Reactive hyperemia
15. Tubular maximum and renal threshold for glucose.

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