

Sub code : 9663

Sept- 2017 EXAM

FIRST MBBS UNIVERSITY EXAM

PHYSIOLOGY

PAPER 1 (BLOOD, CARDIOVASCULAR SYSTEM, EXCRETORY SYSTEM, RESPIRATORY SYSTEM, GASTROINTESTINAL SYSTEM & GENERAL PHYSIOLOGY)

Duration: Two and a Half hours

Total Marks: 50

Instructions: 1. Write Precisely only what is asked 2. Write legibly 3. Draw diagram wherever required 4. Do not use Red colour pen

SECTION 1

Q.1 Write short note on ANY FIVE of the following 20

- a) Basic Mechanism of Clotting
- b) Peripheral resistance: Definition, Unit and Factors affecting
- c) Long term regulation of Blood pressure
- d) Conductive mechanism in the heart
- e) Counter current Mechanism
- f) Mechanism involved in water and electrolyte balance in brief

Q.2 Explain ANY FIVE of the following in brief 05

- a) Size of RBC is greater in venous blood than arterial blood
- b) Digitalis is cardiotonic drug
- c) AV Nodal delay is of great physiological significance
- d) Diastolic blood pressure is clinically more important than systolic
- e) Inulin clearance is used to measure GFR
- f) With constriction of one renal artery, both kidney start sodium and water retention but due to different reasons.

SECTION 2

Q.1 Write short note on ANY FIVE of the following 20

- a) ECF Vs ICF
- b) Chemical Regulation of Respiration
- c) O₂ transport.
- d) Surfactant
- e) Movements of GIT
- f) Gut Hormones

Q.2 Explain ANY FIVE of the following in brief 05

- a) RMP is very near to Nernst K⁺ potential than Nernst Na⁺ potential
- b) Vagotomy is usually associated with pyloroplasty or gastroduodenostomy.
- c) Lactoferrin present in saliva prevents bacterial growth
- d) Damage to pneumotaxic center and cutting of vagi lead to Apnoea.
- e) In persons suffering from chronic lung diseases either fresh blood or blood stored in citrate phosphate dextrose solution should be preferred for transfusion.
- f) Haldane's effect is quantitatively more effective than Bohr's effect.