

[LP 502]

NOVEMBER 2019

Sub.Code :5053

**M.B.B.S. DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY INCLUDING BIO-PHYSICS - I**

Q.P. Code: 525053

Time: Three hours

Maximum : 50 Marks

Answer All Questions

I. Essay: **(1 x 10 = 10)**

1. Describe the structure of glomerular capillary membrane and the factors affecting glomerular filtration. Add a note on measurement of glomerular filtration rate.

II. Write notes on: **(5 x 4 = 20)**

1. Monocyte – macrophage system.
2. Genesis of resting membrane potential.
3. Regulation of gastric secretion.
4. Aldosterone escape.
5. Describe the physiological basis of length - tension relationship.

III. Short answers on: **(10 x 2 = 20)**

1. Anticoagulants.
2. Facilitated diffusion.
3. Functions of lymph.
4. Vitamin D deficiency.
5. Enterohepatic circulation.
6. Achalasia cardia.
7. Actions of glucagon.
8. Bartter's syndrome.
9. Female - Pseudohermaphroditism.
10. Energy sources in muscle.
