



[KW 502]

FEBRUARY 2010

Sub. Code : 4053

**FIRST M.B.B.S. DEGREE EXAMINATION**  
**Revised (Non-Semester) Regulations**  
**PAPER III – PHYSIOLOGY INCLUDING BIO-PHYSICS – I**

*Q. P. Code : 524053*

**Time : Three hours**

**Maximum: 100 Marks**

Answer **ALL** questions

**I. Essay Questions :**

**(2 x 15 = 30)**

1. Describe the enteric and colonic movements.  
Discuss the role of the enteric nervous system. Add a note on defaecation.
2. How did Hans Selye, group the adrenocortical hormones?  
Elucidate their physiological functions.

**II. Write Short notes on :**

**(10 x 5 = 50)**

1. Cells in fibrous tissue, their functions.
2. Functional categorization of plasma proteins.
3. Starling forces and oedema.
4. Digestive proteases.
5. Transporters of amino acids in gut and kidney.
6. Counter current in juxtamedullary nephrons.
7. Abnormalities of micturition.
8. Actions of parathormone.
9. Neuro humoral reflexes.
10. Immunological test for pregnancy.

**III. Short Answer Questions :**

**(10 x 2 = 20)**

1. Measurement of total body water.
2. Lipids in cell membrane.
3. Remodelling of bone tissue.
4. Landsteiner's laws.
5. Fibrinolysis.
6. Lingual lipase.
7. Limiting PH of urine.
8. Leptin.
9. Mullerian regression factor.
10. Composition of semen.

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