

First Year M.Sc Medical Physiology Degree Examinations, October 2013

(FOUNDATION COURSE)

Time: 3 hrs

Max. Marks:- 70

PAPER III-PHYSIOLOGY

- *Answer all the questions*
- *Draw diagrams wherever necessary*

Essays: (2x10=20)

1. Name all hormones regulating blood sugar level. Describe the actions of one hypoglycemic hormone and its regulation.
2. Describe the functions of renal tubules in urine formation.

Short Essays: (5x6=30)

3. Normal ECG from standard limb lead II.
4. Intrinsic mechanism of coagulation.
5. Role of muscle spindle in stretch reflex.
6. Composition and functions of gastric juice.
7. Respiratory centers and its role in rhythmic respiration.

Answer briefly : (5x4=20)

8. Brown- Sequard syndrome.
9. Organ of Corti.
10. Heat loss mechanisms in temperature regulation.
11. Functions of placenta.
12. Properties of smooth muscles.
