

[KZ 502]

AUGUST 2011

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 10 = 20)**

1. Define GFR. Explain briefly about mechanism of factors regulating GFR.
2. Define Haemostasis. Describe briefly about the mechanism of clotting.
Add a note on hemophilia.

II. Write Short notes on :**(10 x 5 = 50)**

1. Resting membrane potential.
2. Negative feedback mechanism with example.
3. Pathophysiology of Diabetes mellitus
4. Small intestinal movements.
5. Neuro endocrinal reflex.
6. Functions of placenta.
7. Describe the phases of gastric juice secretion.
8. Hormonal regulation of menstrual cycle.
9. Dwarf.
10. Composition & Functions of saliva.

III. Short Answer Questions :**(15 x 2 = 30)**

1. Four functions of plasma protein.
2. Helper cells.
3. Kernicterus.
4. Secondary active transport.
5. Rigor mortis.
6. Name the Second messengers.
7. Name the hormones involved for the growth.
8. What is Turner's syndrome – three features?
9. APUD cells of its secretion.
10. Law of intestine.
11. Double Borh effect.
12. Aldosterone escape.
13. What are different types of water absorption?
14. What is Houssay animal?
15. Name the hormones involved in calcium homeostasis, and the main organs that will act.