



[KW 503]

FEBRUARY 2010

Sub. Code : 4054

FIRST M.B.B.S. DEGREE EXAMINATION

Revised (Non-Semester) Regulations

PAPER IV – PHYSIOLOGY INCLUDING BIO-PHYSICS – II

Q. P. Code : 524054

Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. What are the types of muscular exercise?
Discuss the various physiological changes occurring during and after exercise.
2. Elucidate how pressure vibrations in the air are perceived as sound.

II. Write Short notes on :

(10 x 5 = 50)

1. Kirchoff's law and Einthoven's law.
2. Excitation contraction coupling in cardiac muscle.
3. Triple response in skin.
4. Physiological dead space.
5. Dysbarism.
6. Causes of muscle tone.
7. Function of palaeostriatum.
8. Climbing, mossy and parallel fibres.
9. Control of appetite.
10. Induction of sleep.

III. Short Answer Questions :

(10 x 2 = 20)

1. Tracing of arterial pulse.
2. Reynold's number.
3. Pre load and after load in the heart.
4. Sneezing reflex.
5. Denervation hypersensitivity.
6. Reciprocal inhibition.
7. Consolidation of memory.
8. Formation of cerebrospinal fluid.
9. Gustatory receptors.
10. Dark adaptation.

