

FEBRUARY 2008

[KS 503]

Sub. Code : 4054

FIRST M.B.B.S. DEGREE EXAMINATION.

(Revised (Non-Semester) Regulation)

Paper IV — PHYSIOLOGY INCLUDING  
BIOPHYSICS — II

Q.P. Code : 524054

Time : Three hours

Maximum : 100 marks

Theory : Two hours and  
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q.: 20 marks

Draw suitable diagrams wherever necessary.

Answer ALL questions.

Essays :

1. Name the functional lobes of cerebellum. Describe the connections and functions of neocerebellum. Mention the clinical features of cerebellar disease. (15)

2. Write about the functions of hypothalamus. (15)

3. Short notes : (10 × 5 = 50)

(a) Travelling wave theory.

(b) Electroencephalogram.

(c) Reynolds number.

(d) Plasticity of smooth muscle.

(e) Decompression sickness.

(f) Brown sequard syndrome.

(g) Conditioned reflex.

(h) Heart Failure.

(i) Refractive errors.

(j) Differences between three types of muscle (skeletal, cardiac and smooth)