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**Sub. Code : 4054**

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

(Non-Semester)

(Revised Regulations)

Paper IV — PHYSIOLOGY INCLUDING  
BIO-PHYSICS — II

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes                      M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write an essay on the following : (2 × 15 = 30)

(1) Describe the mechanism of oxygen transport in the body. Explain oxygen dissociation curve with a suitable diagram. (15)

(2) Draw and explain the visual pathway. Discuss the effects of lesions at various levels along its course. (15)

II. Write short notes on : (10 × 5 = 50)

(a) Respiratory changes during moderate exercise.

(b) Describe the origin and spread of cardiac impulse.

(c) Foetal circulation.

(d) Refractory errors of the eye.

(e) Cochlea.

(f) Neuroglia.

(g) Discuss the functions of limbic system.

(h) Mechanism of memory.

(i) Describe the humoral regulation of blood pressure.

(j) Artificial respiration.