

[KB 514]

Sub. Code : 4014

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

(Revised Regulations)

Part II

Paper II — PHYSIOLOGY — II

Time : Three hours Maximum : 100 marks

Two and a half hours Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B Section C : 30 marks

Separate answer books must be used for Section A and B

Section 'C' must be answered separately on the answer sheet provided.

Answer ALL questions.

SECTION A

1. Describe the structure and functions of the conductive system of the heart and compare the action potential of the ventricular muscle and pace maker. (15)

2. Write short notes on : (4 × 5 = 20)

(a) Describe the arterial pulse and jugular venous pulse

(b) neural organisation of the Retina

(c) Draw and describe a typical local vascular bed (microcirculation). What are the factors regulating local blood flow?

(d) Travelling wave theory of hearing.

SECTION B

3. Trace the origin, course and termination of the cortico spinal tract. What is the effect of lesion at various levels? Compare and contrast the pyramidal and extra pyramidal systems. (15)

4. Write short answers on : (4 × 5 = 20)

(a) Monosynaptic reflex

(b) E.E.G. Rhythms.

(c) Describe the principal output of Basal Ganglia. Enumerate the disorders encountered due to diseases of the Basal Ganglia.

(d) Intra ocular fluids.