

[MP 514]

Sub. Code : 401

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

(Revised Regulations)

Part II

Paper II — PHYSIOLOGY — II

Time : Three hours

Maximum : 100 mark

Two and a half hours

Sections A and B : 70 mark

for Sections A and 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 as per instruction on the first page.

Answer ALL the questions.

SECTION A — (35 marks)

1. Classify synapses and describe the mechanisms of transmission across the synapse. Mention the various properties of synapse. Add a note on central neuro transmitters. (15)

2. Write notes on : (4 × 5 = 20)

- Composition of CSF and their functions.
- Theories of hearing.
- Accommodation of near vision.
- Referred pain.

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SECTION B — (35 marks)

3. Define, giving normal values

(a) Arterial blood pressure.

(b) Pulse pressure.

(c) Mean arterial pressure.

(d) What is the difference between end arterial pressure and lateral pressure?

(e) Discuss the chief determinants of arterial blood pressure. (2 + 2 + 2 + 2 + 7)

4. Write notes on : (4 × 5 = 20)

(a) Special features of pulmonary circulation

(b) Draw a normal electro cardiogram and label their components.

(c) Isometric contraction phase of the ventricles.

(d) Effect of exercise on cardio vascular system.