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Reg. No.....

Name.....

M.Sc. (MEDICAL ANATOMY) DEGREE EXAMINATION, NOVEMBER 2023

First Year

PHYSIOLOGY

(2022 Admissions—Regular/2017 – 2021 Admissions—Supplementary/Prior to 2017 Admissions—Mercy Chance)

Time : Three Hours

Maximum : 100 Marks

Answer Sections A and B in separate answer sheets.

Draw diagrams wherever necessary.

Section A

I. Answer any *two* of the following :

- (a) Give the normal RBC count ? Explain the steps of erythropoiesis ? Describe the factors affecting erythropoiesis ?
- (b) Explain how oxygen is transported in the body ?
- (c) Define cardiac output and explain the factors regulating cardiac output ?

(2 × 15 = 30)

II. Write Briefly on :

- (a) Composition and functions of Pancreatic juice secretion.
- (b) Explain temperature regulating mechanism in the body.

(2 × 10 = 20)

Section B

III. Answer any *ten* questions :

- (a) Blood group systems.
- (b) Functions of Liver.
- (c) Cushing syndrome.
- (d) Describe a chemical synapse and synaptic transmission.
- (e) Functions of Hypothalamus.





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- (f) Explain spermatogenesis.
- (g) Hypoxia.
- (h) Mechanism of skeletal muscle contraction.
- (i) Lymphatic system.
- (j) Explain water reabsorption in kidney tubules.
- (k) Color vision.
- (l) Regulation of secretion of Thyroid hormone.

(10 × 5 = 50)

