

**F 6284**



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Reg. No.....

Name.....

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

**First Year**

**BIOCHEMISTRY**

(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 books.*

*Draw diagrams Wherever necessary.*

**Section A**

I. Answer any *two* questions. Each question carries 15 marks :

- (a) Explain the biological function and classification of proteins.
- (b) Describe the method for isolation and purification of enzymes. Mention the factors affecting activity of enzymes.
- (c) Explain the formation and circulation of bile pigments. Write about enzymatic digestion of hemoglobin.

(2 × 15 = 30)

II. Write briefly on :

- (a) Explain structure and function of water soluble vitamins.
- (b) Write about biological oxidation.

(2 × 10 = 20)

**Section B**

III. Answer any *ten* questions :

- (a) Write about essential aminoacids.
- (b) Explain digestion and absorption of carbohydrates.
- (c) Write about synthesis of purines.
- (d) Explain digestion of lipids.
- (e) Explain Glycolysis.

1/2

**Turn over**





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- (f) Give an account of dietary requirements of minerals and importance of minerals.
- (g) Write about cholesterol biosynthesis.
- (h) Explain urea formation.
- (i) Give an account on physical properties of amino acids.
- (j) Write about maintenance of blood sugar level.
- (k) Explain synthesis of biologically important compounds from Glycine.
- (l) Write about protein synthesis.

(10 × 5 = 50)

