

GV 3005**First Year MBBS Examination
I MBBS Biochemistry Paper 1****Time: 3 hours****Max Marks: 50**

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Give an account of: (any two) (10)

- a. Name the important blood buffers and describe the role of kidney and lungs in maintenance of acid base balance. (A. 398) (C. 475)
- b. Lipoproteins (A. 217) (C. 317)
- c. Hyperbilirubinemia (A. 330) (C. 214)

2. Write Short notes on (any three) (9)

- a. Diagnostic importance of enzyme assay
- b. Factors affecting enzyme action (A. 60) (C. 88)
- c. Mucopolysaccharides (A. 98) (C. 22)
- d. Trans Fatty acids
- e. Sphingolipids

3. Write Short notes on (any two) (6)

- a. Active transport (A. 15) (C. 651)
- b. ELISA (A. 437) (C.729)
- c. Thyroid function test (A. 637) (C.465)

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Section 2

4. Give an account on (any two) (10)

- a. Krebs Cycle and its energetic
- b. Metabolism of ketone bodies
- c. Regulation of cholesterol Biosynthesis

5. Write Short notes on (any three) (9)

- a. Oxidative Phosphorylation (A. 318) (C.228)
- b. Laboratory Diagnosis of Diabetes mellitus
- c. Lead toxicity (A. 532) (C.666)
- d. Tumour markers (A. 666) (C.691)
- e. Immunoglobulin structure and functions (A. 649) (C.186)

6. Write Short notes of (any six) (6)

- a. HDL cholesterol is good cholesterol
- b. Biochemical basis of cyanide poisoning
- c. Essential Fatty acids prevents fatty liver
- d. P53 is the guardian of the genome
- e. Dietary fibers prevents hypercholesterolemia
- f. High estrogen are associated with reduced breast cancer risks
- g. Fasting hypoglycemia is observed in Von Gierke's disease
- h. Monoclonal antibodies are preferred than

polyclonal antibodies for diagnosis and
therapeutics.

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