

# **MBBS Biochemistry High-Yield Topics**

## **Theory & Viva Examination Revision List**

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# SET 1: HIGH-YIELD THEORY TOPICS

1. Glycolysis
2. TCA Cycle
3. Gluconeogenesis
4. HMP Shunt
5. Glycogenesis
6. Glycogenolysis
7. Beta Oxidation
8. Ketone Body Metabolism
9. Cholesterol Metabolism
10. Lipoproteins
11. Urea Cycle
12. Amino Acid Metabolism
13. Enzymes & Enzyme Inhibition
14. DNA Replication
15. Transcription
16. Translation
17. PCR & Recombinant DNA Technology
18. Vitamins
19. Diabetes Mellitus
20. Jaundice, LFT & RFT

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## SET 2: HIGH-YIELD VIVA TOPICS

1. Rate-limiting enzymes of major pathways
2. Irreversible steps of Glycolysis
3. Regulation of TCA Cycle
4. Ketone bodies and ketoacidosis
5. HMP Shunt and G6PD deficiency
6. Urea Cycle enzymes and disorders
7. Transamination and Deamination
8. Essential amino acids
9. Competitive vs Non-competitive inhibition
10. Isoenzymes
11. Vitamin deficiency diseases
12. DNA replication enzymes
13. Differences: Replication, Transcription, Translation
14. PCR principle and applications
15. Blotting techniques
16. Lipoproteins and functions
17. Biochemical basis of Diabetes Mellitus
18. Types of Jaundice
19. Cardiac markers
20. Normal laboratory values frequently asked in viva

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