

[Time: 3 Hours]

[Max. Marks: 100]

BIOCHEMISTRY
PAPER - II
INTERMEDIARY METABOLISM AND BIOCHEMICAL GENETICS
Q.P. CODE : 7316

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer all the questions

10 X 10 = 100 Marks

1. Describe the pathway of gluconeogenesis from alanine. How is the pathway regulated ? Add a note on its energetics.
2. Describe the process of translation in detail. What are the different post translational modifications and inhibitors of translation?
3. Antioxidants.
4. Components of electron transport chain.
5. Phase I detoxification.
6. Lipotropic factors.
7. Salvage pathway of nucleotide synthesis.
8. Polyamines.
9. Describe the steps of catabolism of phenylalanine and tyrosine. Add a note on inborn errors associated with this pathway.
10. Lysosomal storage disorders.