



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions. (15x2=30)

- i. What are the inhibitors of proteins synthesis?
- ii. What is saccharine material?
- iii. Write uses of fungi in industry.
- iv. What is One-carbon metabolism?
- v. Write names and draw structures of sulfur-containing amino acids.
- vi. What is Osteoporosis?
- vii. Write about the Homeostasis of calcium.
- viii. Write factors affecting Fe absorption.
- ix. Write about the Regulation of purine synthesis.
- x. What are alien metals?
- xi. Write briefly about the trace elements and their metabolism in the body.
- xii. Write some bacterial applications in the food industry.
- xiii. Write Immuno-deficiency diseases in purine metabolism.
- xiv. Write briefly on absorption on proteins.
- xv. Where are the amino acids required for the synthesis of purines and pyrimidine?

Q.2. Answer the following questions.

- 1: Write a note on Ethanol Fermentation. (10)
- 2 (a): Write an essay on the iron metabolism in the body. (3)
- (b): Describe the catabolism of purine nucleotides and the associated metabolic disorders. (7)
- 3 (a): Write in detail about oxidative and non-oxidative deamination with mechanisms. (6)
- (b): Write about the synthesis of RNA and Splicing. (4)