

- 4 Answer the following : (Each of 07 marks) 14
(a) Describe fatty acid oxidation.
(b) Define disaccharides and provide biological importance of useful disaccherised.
- 5 Answer the following : (Each of 07 marks) 14
(a) Give an account of classification of amino acid.
(b) Discuss various levels of protein organization.
- 6 Answer the following : (Each of 07 marks) 14
(a) Explain the experiments which concluded that DNA was a genetic material.
(b) Explain Classification of the protein on the basis of the function.
- 7 Answer the following : (Each of 07 marks) 14
(a) Outline salient features of the mRNA of prokaryotes and eukaryotes.
(b) Describe "Ramachandran plot".
- 8 Answer the following : (Each of 07 marks) 14
(a) Describe the mechanism of N₂ reduction by nitrogenase.
(b) Explain the light reaction in photosynthesis.
- 9 Answer the following : (Each of 07 marks) 14
(a) Describe the mechanism of respiratory protection of nitrogenase against oxygen inactivation.
(b) What is Hatch -Slack Pathway ? Give the difference between C₄ and CAM pathways.
- 10 Answer the following : (Each of 07 marks) 14
(a) Explain urea cycle.
(b) Write a short note of TCA cycle.