

Post graduation (M.D. - Biochemistry) Preliminary Theory Examination
Government Medical College , Bhavnagar

Paper-2 (Metabolism , Bioenergetics, Nutrition , Vitamins and Hormones)

Date : 12/04/2023

Marks : 100

Q-1 Write detail notes on following. (20 Marks)

- Type of haemoglobinopathies. Biochemical and molecular basis of pathogenesis , clinical feature, diagnosis and treatment of sickle cell disease.

Q-2 Write detail notes on following. (20 Marks)

- Type and it's difference of diabetes mellitus. Explain biochemical changes occurs diabetes mellitus. Investigation require for diagnosis and prognostic evaluation of diabetic patients.

Q-3 Write short notes on following. (20 Marks)

1. Biochemical basis of etiology, clinical features, diagnosis and treatment of various hyperhomocystinemia
2. HDL and LDL metabolism

Q-4 Write short notes on following. (40 Marks)

1. Metabolic changes during exercise.
2. Overview of carbohydrate metabolism
3. Significant of NADPH - Explain each in detail.
4. Biochemical explanation of clinical feature , diagnosis and management of phenylketonuria.
5. Biochemical role and significant of vitamins.
6. Alcohol metabolism and it's effect on other metabolism.
7. Lipid digestion and absorption.
8. Dietary advice for patient of coronary artery disease, with biochemical reason.