

Post graduation (M.D. - Biochemistry) Preliminary Theory Examination

Government Medical College , Bhavnagar

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

Date : 16/10/2024

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)

- Biochemical changes occurs diabetes mellitus ketoacidosis. Write it's diagnosis with biochemistry explanation of changes in parameters and management of same.

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

1. Biochemical basis of etiology, clinical features, diagnosis and treatment of various hyperhomocystinemia
2. Draw flow chart for understanding of Von-Gierke's disease pathogenesis and it's consequences.

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

1. Metabolic changes during starvation.
2. Overview of HDL metabolism
3. G6PD deficiency and it's clinical significant with treatment of malaria.
4. Metabolism and fates of phenylalanine.
5. Energy formation from palmitic acid through beta oxidation.
6. Alcohol metabolism and it's effect on other metabolism.
7. Effect of pancreatitis on digestion – absorption and it's consequences.
8. Dietary advice for patient of coronary artery disease, with biochemical reason.