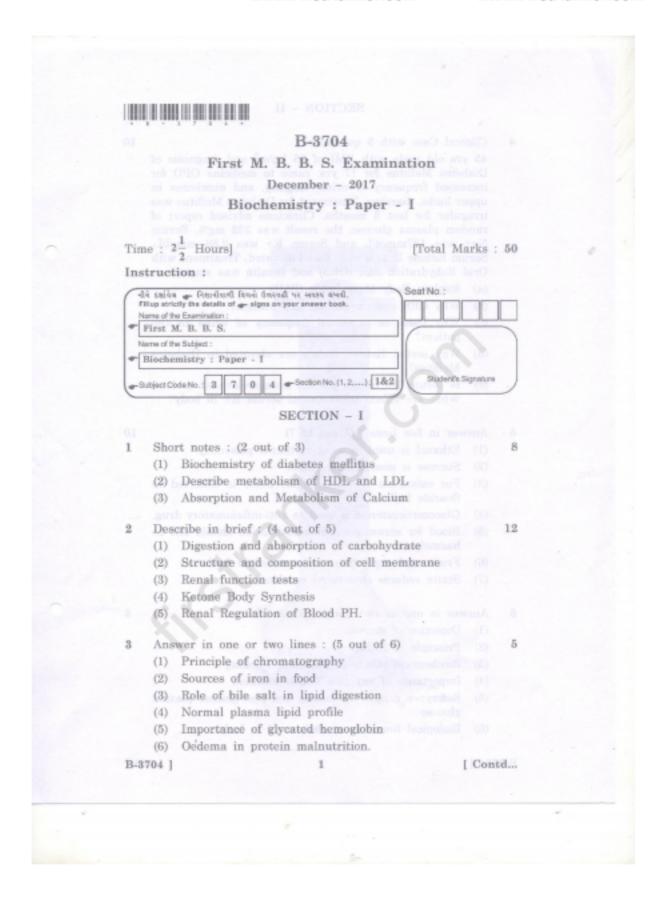


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SECTION - II Clinical Case with 5 questions 45 yrs old male with BMI of 35 kg/m2 and diagnosis of Diabetes Mellitus for 17 yrs. came to medicine OPD for increased frequency of urine, tingling, and numbness in upper limbs, diarrhea. Treatment for Diabetes Mellitus was irregular for last 3 months. Clinicians advised report of random plasma glucose: the result was 332 mg%, Serum Na+ was 127mmol/L and Serum K+ was 2.88 mmol/L. Serum Ketone Bodies were found elevated. Treatment with Oral Rehydration Salt (ORS) and Insulin was started. (a) Explain Body Mass Index (BMI). (b) Why ORS contain glucose and sodium? (c) Why there is increased frequency of urine in the patient? (d) Why serum Ketone Bodies are elevated in Diabetes Mellitus? (e) Is serum K+ in the patient normal/elevated or low? What are effects of abnormal serum K+ in body? Answer in few lines : (5 out of 7) (1) Ethanol is used to treat methanol poisoning. (I) Biochemistry of (2) Sucrose is nonreducing sugar. (3) For esimation of blood sugar, blood is collected in flouride bulb. (4) Glucocorticosteroid is used as anti-inflammatory drug. (5) Blood for serum potassium estimation should not be haemolysed. (6) Fruits and vegetables are essential in food. (7) Statin reduces cholesterol synthesis, and land (8) Answer in one or two lines : (5 out of 6) (1) Digestion of sucrose (2) Principle of ELISA (3) Biochemical effects of Cigarette smoking (4) Importance of any two Tumor markers (5) Reference ranges for fasting and post-glucose plasma (6) Biological functions of cholesterol in body. B-3704] 2 [100]