Question Paper

Exam Date & Time: 14-Aug-2024 (10:00 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BSc. HEALTH SCIENCE DEGREE EXAMINATION - AUGUST 2024 SUBJECT: BHS-301 BIOCHEMISTRY (SPECIAL EXAM)

Marks: 60 Duration: 150 mins. 1) Answer the following in short: Name any two transporters involved in the absorption of glucose and write their role. 1A) (2) 1B) Define the terms electron transport chain and oxidative phosphorylation. (2) 1C) Define phospholipids. Give any two examples for the same. (2) 1D) List Four functions of vitamin C. (2) Mention the effects of insulin on glucose metabolism. 1E) (2) 1F) Write a note on proenzymes. (2) 2) Answer the following in short: 2A) Classify enzymes based on reaction specificity giving one example each for each of the classes. (3) 2B) Write briefly on the structure of glycogen. (3) Write three reactions catalysed by the key enzymes of gluconeogenesis. 2C) (3)Explain FOUR salient features of beta sheets of proteins with diagrammatic representation for its 2D) (3)types. Describe briefly two methods of regulation of glycogen synthesis. 2E) (3)2F) Explain the reactions of ketogenesis. (3) 3) Answer the following in short: 3A) Write the sequence of biochemical events starting from oxidation of LDL to myocardial infarction. (5) 3B) Write a note on carnitine shuttle and describe the reactions of beta oxidation of fatty acids. (5) -----End-----