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GUJARAT TECHNOLOGICAL UNIVERSITY **B.PHARM- SEMESTER-3 - EXAMINATION - SUMMER -2023**

Subject Code:BP303TP Date:09/08/2023 **Subject Name: Biochemistry** Time: 10:30am to 01:30pm **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** Write in brief Genetic code. Add a note on various inhibitors for protein (a) 06 synthesis. **(b)** Note on disorders of lipid metabolism. 05 Discuss in detail Cholesterol Biosynthesis. (c) 05 0.2 Discuss in detail about purine biosynthesis. 06 (a) What do you mean by ketone bodies? Discuss its formation and utilization. 05 **(b)** Define Enzyme. Give the brief classification of enzymes with suitable examples. 05 (c) 0.3 (a) Discuss β -oxidation of fatty acids. 06 Define Enzyme inhibition. Explain reversible and irreversible inhibition of 05 **(b)** Write a note on citric acid cycle & explaining its amphibolic nature. 05 (c) **Q.4** (a) Discuss components and reactions of the electron transport chain. 06 **(b)** Write a note on Glycogen Storage Disease. 05 Discuss the Watson and Crick model of DNA structure. 05 (c) **Q.5** Write about reaction of Krebs-Henseleit cycle and enlist disorders of the cycle. (a) 06

What are carbohydrates? Give classification of carbohydrates with examples & **Q.7** (a) 06 function of it. **(b)**

Discuss the Synthesis of Glucose from Non-Carbohydrate sources.

Define oxidative phosphorylation and discuss inhibitors of oxidative 05 phosphorylation. 05

Describe in detail transamination and deamination reactions for amino acids

05

05

06

05

05

(c) Define bioenergetics and discuss concept of free energy.

Describe in brief DNA replication.

Write in brief about jaundice.

metabolism.

Discuss Aerobic Glycolysis with energetic.

(b)

(c)

(a)

(b)

(c)

Q. 6
