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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM.-SEMESTER-VI- EXAMINATION –SUMMER-2017

Subject Code: 260003 Date: 03/05/2017

Subject Name: Pharmaceutical chemistry-VII (Biochemistry)

Time: 10.30 AM To 01.30 PM 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 (a) How cholesterol biosynthesis is regulated? Give a brief not	te on 06
degradation of cholesterol and important products formed.	0.5
(b) Give a note on β -oxidation of fatty acids with energetic.	05
(c) Give a note on <i>Krebs-Henseleit</i> cycle and its integration wi TCA cycle.	ith the 05
Q.2 (a) Discuss formation of bile pigments from appropriate porph	•
(b) Explain the components of electron transport chain. Give an on the agents that inhibit ETC.	n account 05
(c) Give a short note: <i>In vitro</i> Polymerase Chain reactions.	05
Q.3 (a) Define oxidative phosphorylation and explain with mechan	nism. 06
(b) Explain: Icterus.	05
(c) Write a short note on genetic code.	05
Q.4 (a) Explain the types of DNA mutation along with its repair mechanisms.	06
(b) Explain activation and utilization of methionine.	05
(c) Explain in detail about the enzyme involved in biological o	exidation. 05
Q.5 (a) Define and explain the following: (i) Hyperammonemia (ii) protein nitrogen (iii) transamination reaction of amino acids	
(b) Explain about inhibitors of oxidative phosphorylation.	05
(c) Give a note on water turn oven and balance.	05
Q. 6 (a) Give detail note about protein biosynthesis in eukaryotes.	06
(b) Write a note of centrifugation and chromatography in bioch	nemistry. 05
(c) Write a note on ketogenesis with its importance.	05
Q.7 (a) Write a note on DNA replication.	06
(b) Explain: (i) Osteoporosis (ii) DNA vaccines	05
(c) Explain in detail Lactose operon concept.	05
