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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 6- EXAMINATION –WINTER - 2018

Subject Code: 260003 Date: 27/11/2018

Subject Name: Pharmaceutical Chemistry - VII (Biochemistry)

Time: 02:30 PM TO 05:30 PM Total Marks: 80

Instructions:

1. Attempt any five questions.

porphyrias.

- 2. Make Suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Write a note on purine biosynthesis. Write a note on β-oxidation of fatty acids along with its energetics. Write a note on regulation of gene expression.	06 05 05
Q.2	(a) (b) (c)	Give urea cycle. Add a note on metabolic disorders of urea cycle. Write a note on polymerase chain reactions. Write a note on electrophoresis techniques used in biochemistry.	06 05 05
Q.3	(a) (b) (c)	Write a note on biosynthesis and utilization of ketone bodies. Write a note on biosynthesis of RNA. Give the importance of water and water metabolism in body.	06 05 05
Q.4	(a) (b) (c)	Write a note on catabolism of amino acids. Write a note on respiratory chain. Write a note on coenzymes involved in oxidation reduction reactions.	06 05 05
Q.5	(a) (b) (c)	Give the importance of iron and its metabolism in body. Write a note on DNA repair mechanism. Write a note on isolation and purification of nucleic acids.	06 05 05
Q. 6	(a) (b) (c)	Write a note on Sulphur containing amino acids. Also comment on disorders associated with them. Write a note on formation and importance of bile pigments. Write a note on metabolism of cholesterol.	06 05 05
Q.7	(a) (b) (c)	Write a note on oxidative phosphorylation. Also comment on its inhibitors. Write a note on the specialized products formed from amino acids. Enlist the enzymes involved in biosynthesis of porphyrin. Also add a note on	06 05 05
