

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (OLD) EXAMINATION – WINTER 2017

Subject Code:133601

Date:06/11/2017

Subject Name: Introduction to Medicinal Chemistry and
Biochemistry(Department Elective-I)

Time: 10:30 AM to 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a) Describe "Urea cycle."	07
	(b) Describe the drug metabolism pathways.	07
Q.2	(a) What do you mean by GMP?. Write the importance & applications of GMP in Pharmaceutical Industries.	07
	(b) Write the MOA, metabolism & synthesis of anti-tuberculosis drug- Ethambutol.	07
	OR	
	(b) Write the MOA, metabolism & synthesis of anthelminitics-Mebendazole.	07
Q.3	(a) Describe TCA cycle.	07
	(b) Explain: Draw a neat labeled structure of DNA. Write the differences between DNA & RNA.	07
	OR	
Q.3	(a) Discuss Protein bio-synthesis in detail.	07
	(b) Describe Glycolysis	07
Q.4	(a) Draw a neat labeled structure of eukaryotic cell. Describe the functions of any five cell organelles.	07
	(b) Explain Michaelis-Menton's kinetics in detail.	07
	OR	
Q.4	(a) Describe the role of vitamins as coenzyme.	07
	(b) Discuss Photosynthesis in detail.	07
Q.5	(a) What are antineoplastic drugs?. What are its limitations in chemotherapy?. Write the MOA & synthesis of any one antineoplastic drug.	07
	(b) Write the SAR of sulphonamide antibacterial drug with suitable examples wherever is require.	07
	OR	
Q.5	(a) Write the SAR of 4-amino substituted Quinoline anti-malarial drug.	07
	(b) Write the synthesis of any one anti fungal agent: Miconazole or Econazole.	07
