

2006 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

II B.TECH I SEMESTER REGULAR EXAMINATIONS

ORGANIC CHEMISTRY
(CHEMICAL ENGINEERING)

APRI/MAY 2006

TIME : 3HOUR
MARK :100**ANSWER ANY FIVE QUESTIONS ALL QUESTIONS CARRY EQUAL MARKS**

1. (a) Define and explain Inductive effect.
(b) Explain why aniline is less basic in comparison with methyl amine.
2. Show the reaction mechanism of aldol condensation and describe its uses.
3. (a) What happens when a mixture of butane and chlorine gases is heated in a sealed tube?
(b) Formulate and give mechanism for the reaction between 1-butene and NBS.
4. Explain the following
 - (a) Chiral center
 - (b) Plane polarised light
 - (c) Meso compound
 - (d) Conformational isomers
5. (a) How maleic acid and fumaric acid react with acetyl chloride? What inference you get from this reaction?
(b) Write a note on E and Z configurations of geometrical isomers.
6. (a) What is Vulcanisation? Why is this done?
(b) Describe properties and uses of cellulose.
7. (a) Pyrrole is weaker base than pyridine. Explain.
(b) What is Tetrahydrofuran? How will you prepare it? Mention its important uses.
8. Write down the synthesis of the following
 - (a) Malachite Green
 - (b) para - rosaniline
 - (c) Magenta
