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FIRST SEMESTER

Roll No. Distancionicos

B.Tech.(A)

END SEMESTER EXAMINATION

Nov/Dec.-2015

AC-101 CHEMISTRY

Time: 3 Hours

Max. Marks: 40

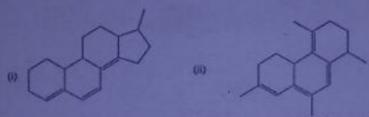
Note: Answer any EIGHT questions. All questions carry equal marks
Assume suitable missing data, if any.

1. Explain any two methods of precipitation titration by taking suitable example.

7. Find out the atom economy of fermentation of sugar to ethanol reaction. What is finger print region in IR spectroscopy? Write its significance.

When the hopes law?

Calculate λ_{max} using Woodward – Fiesher rule:



What is Zeigler-Natta catalyst? Explain the mechanism of co-ordination polymerisation.

Write six principles of green chemistry. Explain green solvents in detail.

What do you mean by enantiotropy? Draw and explain all the triple points existing in the phase diagram of sulphur.

What is Nitrogen rule in mass spectrometry? How many NMR signals are expected in 1-chloropentane and butanol. Show their splitting as well.

Write short note on any two of the following:

- (a) Electroplating
- (b) Secondary batteries
- (c) Eutectic mixture