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ROLL NO. DTU & KIZ AOL 0067

FIRST SEMESTER

B.Tech.(Group A)

END SEMESTER EXAMINATION

November-2013

AC-104 APPLIED CHEISTRY

Time: 3:00 Hours

Max. Marks:70

Note: Question No. 1 is compulsory
Answer any SIX from remaining questions.
Assume suitable missing data, if any.

1.

Draw TGA thermograms for multi stage decomposition and oxidative reaction.

b) What are the sources of IR and UV lights in their respective instruments?

c) The atom economy of a rearrangement reaction is higher than that of an elimination reaction. Justify this statement with the help of examples.

Write the phase rule equation for two component systems and explain?

What is Ziegler-Natta catalyst? Explain its significance.

2x5

2.

a) How will you estimate Zn<sup>2+</sup> in zinc sulfate solution by titrimetric method. Explain in detail with chemical structure of required indicator.

b) Calculate the  $\lambda_{max}$  of the following compound using Woodward-Fieser rules:

(10)

a) What do you understand by secondary batteries? Write charging discharging reactions of Lead-acid battery.

b) Write 6 principal of green chemistry. Explain any one in detail.

(10)

