SECTION	ON-C
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Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Discuss briefly about characteristics and general application of colloids.
- Q.4 Write short note on any 'two'.
 - 1) Bronsted lowsy concept o Acids and Bases
 - 2) Characteristics of catalytic reactions.
 - 3) Lewis concept of acids & bases.
- Q.5 Discuss briefly about le-chetlier's principle. Also give its applications in Industry.
- Q.6 What are soaps and detergents? Discuss the cleaning mechanism of soap/detergent.
- Q.7 What do you understand by pH? How it is measured? Relation between pH & pOH.

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3rd Sem. / Text Proc / Text. Chem Subject : Physical & Org. Chemistry

Time: 3 Hrs. M.M.: 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Define Hetrogeneous catalysis.
 - b) Define % strength or concentration.
 - c) What is a Positive Catalyst.
 - d) Name any two 'weak' acids.
 - e) Name any two 'weak' alkalies.
 - f) What do you mean by negative catalyst.
 - g) Define Molarity.
 - h) What do you mean by 'chemical equilibrium'?
 - i) Alkenes are _____ hydrocarbons (saturated/unsaturated)
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j)	What is a 'gel'?
k)	What is Equivalent wt of a compound?
l)	No of pH indicates neutral condition.
m)	No of pH values indicate Acidic condition.
n)	No. of pH value indicate Alkaline condition.
o)	Gold No indicates the power of a protective colloid.
p)	Define protective colloid.
q)	What do you mean by empirical formula of a compound?
	SECTION-B

Note: Short answer type questions. Attempt any ten parts

- Q.2 Discuss homogenous catalysis with example.
 - Discuss the method of detection of sulphur in organic compounds.
 - Discuss the method of detection of Nitrogen in organic compounds.
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- iv) What are function groups in organic compounds? Name two functional groups.
- Discuss briefly about Acid-Base catalysis.
- Discuss briefly about Brownian movement.
- vii) What do you mean by coagulation of colloidal solutions.
- viii) Discuss briefly arrhenius concept of Acids and Bases.
- Give properties and uses of Benzene.
- Give properties and uses of carboxylic acids.
- What do you mean by 'Promotors'? Discuss with example.
- xii) Give classification of organic compounds.
- xiii) Give properties and uses of Glycerols.
- xiv) What is le-chatlier principle of chemical equilibrium?
- xv) What do you mean by 'Auto catalysis? Discuss with examples.

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