## SECTION-D

Note:Long answer type questions. Attempt any three questions out of four questions. $3 \times 10=30$
Q. 33 What is Le-chatelier's Principle, and explain the effect of change of Concentration on the state of equilibrium.
Q. 34 An organic compound on analysis give following percentage composition $\mathrm{C}=57.8$, $\mathrm{H}=3.6$ and $\mathrm{O}=38.6$. calculate Molecular formula, if Mol wt. is 166.
Q. 35 Explain in detail the cleaning action of a soap.
Q. 36 Give the IUPAC name of following compounds.
a) $\mathrm{CH}_{3} \mathrm{CH}_{2} \mathrm{CH}_{3}$
b) $\mathrm{CH}_{3} \mathrm{CH}_{2} \mathrm{Cl}$
c) $\mathrm{CH}_{3} \mathrm{CH}_{2} \mathrm{OH}$
d) $\mathrm{CH}_{3} \mathrm{CH}_{2} \mathrm{CHO}$
e) $\mathrm{CH}_{3} \mathrm{COOH}$

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## SECTION-A

Note:Objective type questions. All questions are compulsory
(10x1=10)
Q. 1 Name two phases that a colloidal solution has.
Q. 2 Write the equation of Ist order reactions.
Q. 3 Give an example of catalytic promotar.
Q. 4 What is the pH of pure water?
Q. 5 Give an example of strong acid and strong base.
Q. 6 Name the element that is present in all organic compounds.
Q. 7 What is fat?
Q. 8 What is formaline?
Q. 9 Give an example of a acidic buffer.
Q. $10 \mathrm{Ag}^{+}$behaves as lewis $\qquad$ (acid or base)

## SECTION-B

Note:Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20
Q. 11 Why do we add alum to purify water?
Q. 12 A solution is prepared by dissolving $18: 25 \mathrm{gm}$ of NaOH in distilled water to give $200 \mathrm{Cm}^{3}$ of solution. Calculate molarity of solution.
Q. 13 What is an acid define an the basic of Arrhenius concept.
Q. 14 Give any two properties of aromatic Compound.
Q. 15 What are the use of carbon tetra chloride.
Q. 16 Why the alcohols are water soluble.
Q. 17 Why the soaps do not work in hard water?
Q. 18 write any two chemical property of oil.
Q. 19 Name any two derivatives of carboxylic acid.
Q. 20 Write a short note on Gold number
Q. 21 Write the uses of glycol.
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