

Con. 2439-09.

(2 Hours)

VR-1015

[Total Marks : 75]

- N.B. :** (1) Question No.1 is compulsory.
 (2) Attempt any four questions from remaining six questions.
 (3) Figures to the right indicate full marks.
 (4) All questions carry equal marks.

1. Attempt any five from the following :-

15

- Distinguish between Addition polymerisation and Condensation polymerisation.
- What are Nano-materials ? Give two properties of Nano-materials which make them different and superior to Conventional materials.
- What is Grease ? Under which situation it is used as a lubricant ?
- A water sample contains :-
 - $\text{Mg}(\text{HCO}_3)_2 = 14.6 \text{ ppm}$
 - $\text{Mg}(\text{NO}_3)_2 = 29.6 \text{ ppm}$
 - $\text{Ca}(\text{HCO}_3)_2 = 8.1 \text{ ppm}$
 - $\text{Mg Cl}_2 = 19 \text{ ppm}$
 - $\text{Mg SO}_4 = 24 \text{ ppm}$

Calculate the temporary and permanent hardness of water sample.

(At. wt. C = 40, Mg = 24, H = 1, Cl = 35.5, S = 32, O = 16)

- What is triple point ? Explain it with reference to one component water system.
- Explain Nickel-Hydrogen (Ni-H_2) batteries with the help of chemical reactions.
- Explain the preparation, properties and uses of PMMA.

- What are the main constituent of plastics ? Write the functions and examples of each constituent. 5
 - What is condensed phase rule equation ? Explain its application with the help of phase diagram to two Component Lead - Silver (Pb-Ag) system. 6
 - 9 ml oil is taken from machine and it requires 1.5 ml of 0.04 N KOH. Find acid value (density of oil = 0.81 g/ml). 4
- How demineralization of water is carried out ? 6
 - Explain the following terms : 6
 - Number Average Molecular wt. ($\bar{M}_n$)
 - Vulcanization
 - Liquid crystal properties of polymers.
 - Write the classification of plain C steel on the basis of Carbon Content. 3

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