Applied chemistry-I

2.815/09 1101m to 1 Pm

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Con. 2439-09.

WTS-Americans and Institute

(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.
- Attempt any five from the following :-
 - (a) Distinguish between Addition polymerisation and Condensation polymerisation.
 - (b) What are Nano-materials? Give two properties of Nano-materials which make them different and superior to Conventional materials.
 - (c) What is Grease? Under which situation it is used as a lubricant?
 - (d) A water sample contains :-
 - (i) Mg (HCO₃)₂ = 14.6 ppm
 - (ii) Mg (NO₃)₂ = 29-6 ppm
 - (iii) Ca (HCO3)2 = 8·1 ppm
 - (iv) Mg Cl₂ = 19 ppm
 - (v) Mg SO₄ = 24 ppm.

Calculate the temporary and permanent hardness of water sample. (At. wt. C = 40, Mg = 24, H = 1, C = 12, O = 16, S = 32)

- (e) What is triple point? Explain it with reference to one component water system.
- (f) Explain Nickel-Hydrogen (Ni-H₂) battaries with the help of chemical reactions.
- (g) Explain the preparation, properties and uses of PMMA.
- (a) What are the main constituent of plastics? Write the functions and examples of each constituent.
 - (b) What is condensed phase rule equation ? Explain its application with the help of phase diagram to two Component Lead – Silver (Pb-Ay) system.
 - (c) 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).
- 3. (a) How demineralization of water is carried out ?
 - (b) Explain the following terms:
 - (i) Number Average Molecular wt. (Mn)
 - (ii) Vulcanization
 - (iii) Liquid crystal properties of polymers.
 - (c) Write the classification of plain C steel on the basis of Carbon Content.

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