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APPLIED CHEMISTRY-II 2ND Exam /Common/2254/2451/5424/ Nov'16

Duration: 3 Hrs M. Marks: 75 **SECTION -A** Q.1 Fill in the blanks 1x10=10a. Slow but continuous eating away of the metal by the chemical action with surrounding is called b. Coating of iron with zinc by hot dipping method is called c. Slag is a product of and d. Brass is manily a mixture of and metal. e. Producer gas is mixture of and f. Carbon monoxide is toxic than CO₂. g. The unit of heat is h. Acid refractories are resistant to i. Pigment varnish is called PAN means Q.2 State True or False 1x5=5a. All ores are minerals. b. Brass is ferrous allov. c. Ultra mine is a white pigment. d. Nylon66 is a copolymer. e. Scale formation in boiler cause wastage of fuel. **SECTION-B** Q.3 Note: Attempt Any Six question a. Explain Roasting and calcination? b. Explain electromagnetic separation process for the concentration of ores? c. Define fire point, viscosity, viscosity index, pour point and cloud point of oil? d. Comparison of chemical and electro-chemical corrosion? e. What is fuel? What are the characteristic of good fuel? f. Differentiate between thermoplastic and thermosetting plastic with example? g. What are refracteries? What are the characteristic of good refracteries? h. What is water Pollution? Give the sources of water pollution? **SECTION -C** Q.4 Attempt any Five questions: 5x6=30 i. Differentiate between addition polymer and condensation polymer? ii. Define the term lubricant? What are the function of lubricant? iii. What is biogas? Give its composition and uses? Distinguish between octane number and cetane number? iv. A sample of coal contains 60% carbon, 33% oxygen, 6% hydrogen, 0.5% sulphur, 0.3% ٧. nitrogen and 0.2% ash. Calculate gross calorific value of coal?

What are the theories of corrosion? Describe briefly the acid theory?

ii) Froth floatation process

What is acid rain? What are its harmful effects?

vi. vii.

viii.

Explain.

i) Zone Refining process