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S.B. Roll No.....

APPLIED CHEMISTRY-II

2nd Exam/2254/2451/5424/Common/May'16

Duration: 3 hrs **M. Marks=75**

SECTION A

Q. 1 Fill in the blanks **1x10=10**

a. Important ore of iron is_____.
b. Sulphide ores are concentrated by _____process.
c. The process of depositing Zinc on iron is called_____
d. Producer gas is a mixture of CO & _____.
e. Percentage of fixed carbon can be determined by _____ analysis.
f. A good lubricant should have _____flash point.
g. In a paint, gypsum is used as_____
h. Fire clay bricks are _____ in nature.
i. Polythene is a ____ polymer.
j. Carbon monoxide is _____ toxic than CO_2.

Q.2 State True or False **1x5=5**

a. Percentage of carbon is more in wrought iron than steel.
b. Solder is an example of ferrous alloy.
c. Graphite is an example of natural refractory.
d. Rubber is a natural polymer.
e. The intensity of noise is measured in decibel.

SECTION B

Q.2 Attempt any SIX questions: **6x5=30**

(i) Explain Froth floatation process for the concentration of sulphide ore.
(ii) Define the terms gangue, flux, slag, ore and mineral.
(iii) What are the factors which influence the rate of corrosion?
(iv) What is water gas? Give its composition and uses.
(v) Define greases. Give applications of greases.
(vi) What are the characteristics of a good paint?
(vii) Differentiate between thermoplastics and thermosetting plastics.
(viii) Explain addition and condensation polymers.
(ix) What is air pollution? Give the sources of water pollution.

SECTION C

Q. 3 Attempt any FIVE questions: **5x6=30**

(i) What is an alloy? Describe the composition and uses of German silver and Nichrome.
(ii) Write a short note on metal cladding and metal spraying.
(iii) Describe classification of fuel.
(iv) Define oiliness, saponification value, volatility, emulsification, cloud point and pour point.
(v) What are refractories? Give characteristics of a good refractory material.
(vi) Give the preparation and uses of Natural rubber and PVC.
(vii) Describe primary and secondary pollutants, biodegradable and non Biodegradable pollutants.
(viii) Explain coal gas and Biogas.

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