

S.B. Roll No.....

APPLIED CHEMISTRY
2nd Exam/common/2254/June'2015

Duration: 3hrs

M. Marks=75

NOTE: Attempt all questions

SECTION- A

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

- a) The earthy impurities present in the ores are called_____
- b) The formula of Galena is _____
- c) Coating of iron with Zinc by hot dipping method is called_____
- d) Unit of heat is _____
- e) In the combustion of fuel _____ reaction occurs.
- f) A good lubricant should have _____ flash point.
- g) A thinner is added in a paint to decrease its _____
- h) S in Buna S rubber stands for _____
- i) Least polluting car fuel is _____
- j) Human ear can tolerate noise up to _____ decibel.

State True or False

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- a. Galvanised sheets of iron are coated with tin.
- b. Diesel is natural occurring liquid oil.
- c. A good lubricant has high pour point.
- d. Fibres are weaker than elastomers.
- e. Chloroethene is the monomer of PVC.

SECTION- B

Q.2 Attempt any six questions **6x5=30**

- (i) Explain roasting and smelting.
- (ii) What are the factors which influence the rate of corrosion?
- (iii) What is a water gas? Give its composition and uses.
- (iv) What are the characteristics of a good lubricant?
- (v) Define enamel? Give its composition and uses.
- (vi) Explain addition and condensation polymers.
- (vii) Define adhesives. How they are classified?
- (viii) What is noise pollution? How can we control noise polluting?
- (ix) Define corrosion. How it is different from erosion?

SECTION- C

Q. 3 Attempt any five questions **5x6=30**

- (i) Describe the composition and uses of nichrome and gun metal.
- (ii) Define fuels. How are they classified?
- (iii) Define emulsification, saponification value, iodine value, flash point, fire point and pour point.
- (iv) What is paint? State main characteristics of a good paint.
- (v) What are plastics? Give constituents and applications of plastics.
- (vi) Explain stress corrosion and high temperature corrosion.
- (vii) Describe primary and secondary pollutants, biodegradable and non Biodegradable pollutants.
- (viii) What are the constituents of Biogas and oil gas. Give their uses.