

S. B. Roll. No.....

APPLIED CHEMISTRY-II
2nd Exam/Common/4553/Jun'2021
(For 2018 Batch Onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any five questions.

5x3=15

- i. Explain electromagnetic separation for concentration of ores.
- ii. Differentiate between ferrous and non-ferrous alloys.
- iii. What is galvanization of iron? Explain.
- iv. Define corrosion? How is it different from erosion?
- v. What are the advantages of gaseous fuels over solid and liquid fuels?
- vi. Define calorific value of a fuel? What are the units of calorific value?
- vii. What are the characteristics of a good lubricant?
- viii. What is flash point and fire point of a lubricant?
- ix. What is a refractory material?
- x. What are the main characteristics of a good paint?

SECTION-B

Attempt any one question.

1x10=10

- Q2. i)** Give the uses of the following alloys
a) Nickel steel b) Alnico c) Solder d) Nichrome e) German silver
ii) Explain froth floatation process for concentration of sulphide ores.
- Q3. i)** State and explain Pilling-Bedworth rule.
ii) Distinguish between thermoplastics and thermosetting plastics.
- Q4. i)** What should be the characteristics of a good fuel?
ii) Write short notes on a) Biogas b) Water gas
- Q5. i)** What are the functions of cutting fluids?
ii) What are the advantages of solid lubricants?