

This question paper contains 3 printed pages.]

5192-HH

Your Roll No.

B.Sc. / II Sem.

B

INDUSTRIAL CHEMISTRY-I

Paper ICPT-202

Fuels, Cleansing Agent and Food Additives

Time : 3 Hours

Maximum Marks : 75

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Attempt six questions in all.

Question No. 1 is compulsory.

1. Write short note (any three) : 3×5=15
- (a) CNG as a fuel
 - (b) Water gas
 - (c) Classification of oil
 - (d) Viscosity index of lubricants
2. (a) Explain the different types of carbonization of coal. 8,4

[P.T.O.]

- (b) Write composition and uses of coal gas.
3. (a) Describe the occurrence, composition and classification of petroleum. 8,4
- (b) Write a note on Reforming Petroleum.
4. Write short notes (any two) : 6,6
- (a) Synthetic Lubricants
- (b) Determination of pour point of lubricants
- (c) Solvent Refining
5. (a) Write the procedure for experimental determination of Iodine number. 8,4
- (b) Define Saponification value.
6. Describe the important properties of lubricants and their determination. 12
7. Explain briefly : 6,6
- (a) Clean Fuels
- (b) Detergent binders

8. (a) What are detergents ? Describe zeolites. 8,4
(b) Describe ABS or LAS.
9. (a) Give the requisites of a good metallurgical coke. 6,6
(b) Describe the detrimental effects of detergents.
10. Give a detailed account of : 6,6
(a) Food colouring agents
(b) Food preservatives.