

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No.

FT-5005 (I) (CBGS)

B.E. V Semester

Examination, December 2017

Choice Based Grading System (CBGS)

Safety in Petrochemical Plants and Gas

Terminals

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions.

ii) All part of each question are to be attempted at one place.

iii) All questions carry equal marks.

1. a) What is Crude Oil? Write its properties and Characteristics in detail? 7
b) Explain the working principle of lubricating oil treating process. 7
2. a) Define Fractional Distillation in detail with neat sketch? 7
b) Prepare of MSDS of Benzene? 7
3. a) What is Sulphur Recovery? Describe it in detail? 7
b) Develop a flow diagram of typical refinery process. Also describe products of refinery. 7

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4. a) Explain different types of Fire Extinguisher in detail with their line diagram? 7
b) What is Fire Risk Assessment? Explain its process in detail? 7
5. a) Enlist the area in Oil Refinery which is at Major Fire Risk? Suggest the suitable fire preventive measures in these areas? 7
b) Give the detail description of storage tanks and their types used at Oil Refinery. 7
6. a) Explain the salient features of explosive rules 1983 in detail? https://www.rgpvonline.com 7
b) Discuss Petroleum Act 1934 concerning to the safety aspects of an occupier? 7
7. a) Explain water bottoming with suitable diagram for LPG storage? 7
b) What do you understand by BLEVE? What are the Major causes of BLEVE? Explain by Event evolution algorithm. 7
8. Enlist and explain the potential fire hazards in the event of LPG leaks, from bullet at LPG bottling plan? What Precautionary measure you suggest as Fire Engineers. 14

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