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**M.Sc. (Applied Chemistry) (Semester IV)
EXAMINATION, 2017**

Paper-M4AC17-ET-22A

INDUSTRIAL CHEMISTRY-I

Time allowed : Three hours

Maximum marks : 40

*Note : The question paper is divided into
three Parts - A, B and C.*

Part-A (Compulsory) {Marks : 8}

*Answer all eight questions (20
words each). Each question carries
1 mark.*

Part-B (Compulsory) {Marks : 8}

*Answer all four questions (50
words each). Each question carries
2 marks.*

*Answer any three questions (400 words
each), selecting one from each Unit.
Each question carries 8 marks.*

Part-A (Compulsory)

- | | |
|---|---|
| 1. What is Glass wool ? | 1 |
| 2. What do you understand by Plasticity of Clay ? | 1 |
| 3. What is Terracotta wares ? | 1 |
| 4. Write uses of Essential Oils. | 1 |
| 5. What is Plaster of Paris ? | 1 |
| 6. Write any one chemical test of Fats. | 1 |
| 7. What are NPK Fertilizers ? | 1 |
| 8. Write the uses of Nitroso dye. | 1 |

Part-B (Compulsory)

Unit-II

- 9. Write the basic raw materials used in manufacture of Glass. 2
- 10. Explain the classification of Ceramics. 2
- 11. What is meant by Setting and hardening of Cement? 2
- 12. Write the role of fertilizers in agriculture. 2

- 14. Discuss the process of manufacture of Portland Cement. 8

Or

Write a note on Production of different types of Soaps. 3

Part-C

Unit-III

Unit-I

13. Write short notes on the following :

- (i) Photosensitive glass
- (ii) Photochromatic glass

4+4

Or

Write a detailed note on Pottery Porcelain and Sanitary Wares. 8

- 15. Explain the preparation, properties and uses of azo dyes. 8

Or

Explain the manufacture and uses of Ammonium Nitrate. 8