Exam.Code:5012 Sub. Code: 11751

## 2055

## Bachelor of Science (FYUP) Second Semester **Industrial Chemistry**

**Applied Industrial Chemistry** 

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

X - X - X

<ul> <li>Q. 1. (a) Differentiate between oils and fats.</li> <li>(b) Give a brief of raw materials used in pulp &amp; paper.</li> <li>(c) Explain the constituents of cement and refractory material.</li> <li>(d) Write three desirable properties of face powder.</li> </ul>	(4 × 3 =12)
UNIT-1	
<ul><li>Q. 2. (a) Describe the extraction of oils from vegetable oils using more appropriate method</li><li>(b) Illustrate the manufacturing of soap.</li></ul>	od. (6, 6)
<ul><li>Q. 3. (a) What is hydrogenation of oils? Discuss the procedure of it.</li><li>(b) Elaborate the classification of detergents.</li></ul>	(6, 6)
UNIT-II	
<ul><li>Q. 4. (a) Discuss the different types of pulp.</li><li>(b) List the uses of molasses and bagasse.</li></ul>	(6, 6)
Q. 5. Explain the following in sugar extraction: (i) Defecation (ii) Carbonation (iii) Concentration (iv) Crystallization	(12)
<u>UNIT-III</u>	
<ul><li>Q. 6. (a) What is Portland cement? How will you manufacture it?</li><li>(b) Describe the properties of ceramics.</li></ul>	(6, 6)
<ul><li>Q. 7. (a) Elaborate types of cement with examples.</li><li>(b) Discuss the important steps involved in the manufacture of refractories.</li></ul>	(6, 6)
<u>UNIT-IV</u>	
<ul><li>Q. 8. (a) List the important ingredients of a shaving cream.</li><li>(b) What is shampoo? Explain ideal properties of a shampoo.</li></ul>	(6, 6)
Q. 9. (a) What is hair dye? Discuss the types of hair dyes.  (b) Explain the sources and importance of Geraniol and Rose oil in cosmetic indust	try. (6, 6)