

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY
Summer Examination-2017

Subject Name : Industrial Chemistry - I

Subject Code : 4SC05CHE1

Branch: B.Sc. (Chemistry)

Semester : 5

Date : 01/04/2017

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-1 Attempt the following questions: (14)**
- a) Give formula of lauric acid. (1)
 - b) What is basic difference between oil and fats. (1)
 - c) Write different techniques for isolation of essential oils. (1)
 - d) Draw structure of musk ambrette. (1)
 - e) Define calcinations. (1)
 - f) Define oxidation. (1)
 - g) Write chemical formula of ethyl acetate. (1)
 - h) Give example of condensation reaction. (1)
 - i) What are the industrial uses of hydrogen? (1)
 - j) Write the chemical formula of formaldehyde. (1)
 - k) Define polymerization. (1)
 - l) What is ionone? (1)
 - m) Define filtration. (1)
 - n) Give example of natural perfume. (1)
- Attempt any four questions from Q-2 to Q-8**
- Q-2 Attempt all questions (14)**
- a) Discuss the physical and chemical properties of perfumes. (7)
 - b) Write a note on Silicon oil and Ester oil. (7)
- Q-3 Attempt all questions (14)**
- a) Write a note on (10)
 - 1. Industrial synthesis of Methanol
 - 2. Industrial synthesis of Ethanol
 - b) Gives the difference between Unit process and Unit operation. (4)
- Q-4 Attempt all questions (14)**
- a) Explain the properties of oils and fats. (7)
 - b) What are different methods of analysis of fats and oils discuss any three. (7)



