

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Industrial chemistry-I

Subject Code: 4SC04IDC1

Branch: B.Sc. (chemistry)

Semester: 4

Date: 24/04/2019

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)**
- Write the definition of ceramics. (1)
 - Which metal oxides are used for manufacturing of pink and blue color glass? (1)
 - Write Greek name of ceramics. (1)
 - Define: cullet. (1)
 - Draw the structure of DDT. (1)
 - Define fumigents. (1)
 - Write full form of NPK fertilizer. (1)
 - What is batch material? (1)
 - Define glass. (1)
 - What is fertilizer? (1)
 - What happened to the plant due to deficiency of nitrogen? (1)
 - Draw the structure of chlorobenzene. (1)
 - Which pH range is required for the soil fertility? (1)
 - What are different types of decoration? (1)
- Attempt any four questions from Q-2 to Q-8**
- Q-2 Attempt all questions (14)**
- Discuss chemical properties of glass. (7)
 - Explain any three steps for manufacturing of ceramics. (7)
- Q-3 Attempt all questions (14)**
- Write synthesis and uses of Methoxichlor and aldrine. (7)
 - Write synthesis and uses of HCH and Malathion. (7)
- Q-4 Attempt all questions (14)**
- Explain production of ammonium nitrate fertilizer. (7)
 - Discuss the deficiency of micro nutrients in plant. (7)
- Q-5 Attempt all questions (14)**
- Write a note on raw material of glasses. (7)



- b) Write a note on safety glass (7)
- Q-6 Attempt all questions (14)**
- a) Write synthesis and uses of DNP and parathion. (7)
- b) Write brief note on insecticides. (7)
- Q-7 Attempt all questions (14)**
- a) Explain the production method for urea fertilizer. (6)
- b) Write essential requirements for fertilizer. (5)
- c) Write the definition of primary, secondary, and tertiary plant nutrients. (3)
- Q-8 Attempt all questions (14)**
- a) Explain chemical reactions for glass manufacturing process. (6)
- b) Discuss jollyng process in detail. (5)
- c) Describe any three raw materials of glass. (3)

