

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Organic Chemistry-II

Subject Code: 4SC04OCH1

Branch: B.Sc. (Chemistry, Physics)

Semester: 4

Date: 18/04/2019

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)

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| a) Define: Reaction mechanism | 01 |
| b) Draw the chemical structure of Alizarin. | 01 |
| c) What is the use of Ibuprofen? | 01 |
| d) What do you meant by rearrangement? | 01 |
| e) Give any one example of hemlock alkaloid. | 01 |
| f) Write the reaction to detect hydroxyl group in alkaloids. | 01 |
| g) Write the general molecular formula of Diterpene. | 01 |
| h) Draw the structure of isoprene unit. | 01 |
| i) Give any one example of alkaloid containing pyridine - pyrrolidine group. | 01 |
| j) Write one application of fries rearrangement | 01 |
| k) In which type of organic reaction allylic rearrangement is observed? | 01 |
| l) Write any two physical properties of terpenoids. | 01 |
| m) What is the use of congo red? | 01 |
| n) In alkaline medium alizarin gives _____ coloured solution. | 01 |

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions (14)

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| a) Discuss Arndt- Eistert reaction with mechanism and its applications. | 07 |
| b) Write a brief note on Hofmann rearrangement with mechanism and its applications. | 07 |

Q-3 Attempt all questions (14)

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| a) Explain Curtius reaction with its mechanism and application. | 07 |
| b) Explain Barbier-Wieland reaction with mechanism. | 07 |

Q-4 Attempt all questions (14)

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| a) Write a brief note on Indigo dye. | 07 |
| b) What is terpenoids? Discuss classification of terpenoids. | 07 |



