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Total No. of Questions: 09

B.Sc. (BT) (2018 Batch) (Sem.-3)

ORGANIC CHEMISTRY

Subject Code: BSBT-301-18

M.Code: 76608

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) Acetylene has garlic order why?
- b) Is 1,3 butadiene is more stable than 1,4-pentadiene?
- c) Define aromaticity.
- d) Why terminal alkynes are acidic?
- e) Give two industrial applications of ethylene.
- f) What are delocalized bonds?
- g) Explain the Markownikoff's rule.
- h) What are carbon free radical?
- i) Out of boat or chair conformation of cyclohexane which is more stable.
- j) What is resonance?



SECTION-B

- 2. Explain the aromaticity.
- 3. What is hypercongujation?
- 4. Explain the kekule structure.
- 5. Explain the carbocation and their methods of formation.
- 6. Discuss the mechanism of addition of a halogen acid to an alkene.

SECTION-C

- 7. What is carbene? Discuss their formation as well as their relative stability order.
- 8. Explain the Inductive and electromeric effects.
- www.FirstRanker.com 9. Explain the mechanism of following reactions:
 - a) Kolbe's reaction.
 - b) Reimer Tiemann reaction

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M-76608 (S2)-410