

LONDON COLLEGE OF INTERNATIONAL CHEMISTS – 2020/2021

NAME: _____ COURSE: _____

ENTRY NUMBER: _____

IC: 2020 (CONCEPTS IN ORGANIC CHEMISTRY)

IC20 11

Class : 2020/2021

Days: (1st- _____)

Time : 1:00 Minutes

Time : 2020 : 2 (2020)

PART – A

20 x 2 = 40 marks

Answer ALL the questions.

1. State three bonding principles.
2. Describe the mechanism of electrophilic aromatic substitution.
3. Write the chemical formulae for $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$.
4. Describe the structure of ethane.
5. What is the mechanism of electrophilic aromatic substitution of an alkene and electrophilic aromatic substitution of an alkene in the presence of an acid catalyst?
6. Describe and explain how the electrophilic aromatic substitution of benzene is carried out.
7. What are the products of the reaction of benzene with HNO_3 and H_2SO_4 ?
8. Describe the mechanism of electrophilic aromatic substitution of benzene.
9. What are the products of the reaction of benzene with HNO_3 and H_2SO_4 ?
10. What are the products of the reaction of benzene with HNO_3 and H_2SO_4 ?

PART – B

20 x 2 = 40 marks

Answer any FIVE questions.

1. What are the products of the reaction of benzene with HNO_3 and H_2SO_4 ?
2. Describe the mechanism of electrophilic aromatic substitution of benzene.
3. Describe the mechanism of electrophilic aromatic substitution of benzene.
4. Describe the mechanism of electrophilic aromatic substitution of benzene.
5. Describe the mechanism of electrophilic aromatic substitution of benzene.
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17. Describe the mechanism of electrophilic aromatic substitution of benzene.
18. Describe the mechanism of electrophilic aromatic substitution of benzene.
19. Describe the mechanism of electrophilic aromatic substitution of benzene.
20. Describe the mechanism of electrophilic aromatic substitution of benzene.

PART – C

20 x 2 = 40 marks

Answer any FIVE questions.

1. What are the products of the reaction of benzene with HNO_3 and H_2SO_4 ?
2. Describe the mechanism of electrophilic aromatic substitution of benzene.
3. Describe the mechanism of electrophilic aromatic substitution of benzene.
4. Describe the mechanism of electrophilic aromatic substitution of benzene.
5. Describe the mechanism of electrophilic aromatic substitution of benzene.
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18. Describe the mechanism of electrophilic aromatic substitution of benzene.
19. Describe the mechanism of electrophilic aromatic substitution of benzene.
20. Describe the mechanism of electrophilic aromatic substitution of benzene.

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Ying Liu



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