



30/5/24

DOON UNIVERSITY, DEHRADUN
End Semester Examination, Semester II, 2024
Academic Year 2023-24 (Even Semester)
School of Media and Communication Studies
Programme Name: 4 Years Bachelor Program in Media and Communication Studies
Course Code with Title: MSC 152 Photography

Time for written exam: 1 hour

Maximum Marks: 50

Part A
Written (15 Marks)

Q1. Discuss the importance of Lighting in Photography? Explain Three point Lighting with suitable diagram. 7 Marks

OR

Comment on the Composition of a Photograph.

Q.2. Write short notes on any two of the following: (4 marks each)

- (a) Make up
- (b) Different Camera shots
- (c) History of Photography
- (d) Different Camera Lenses
- (e) Landscape Photography

Part B
Assignments (35 Marks)

Students will submit given assignments after written examination.

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DOON UNIVERSITY, DEHRADUN
End Semester Examination, May, 2024
B.Sc. IInd Semester, Chemistry
School of Physical Sciences, Department of Chemistry
Course Code: CYC-152: Hydrocarbons, Haloalkanes and Haloarenes

Time Allowed 2 Hours

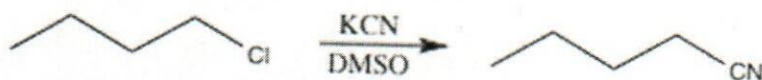
Maximum Marks: 30

Note: All Questions are compulsory

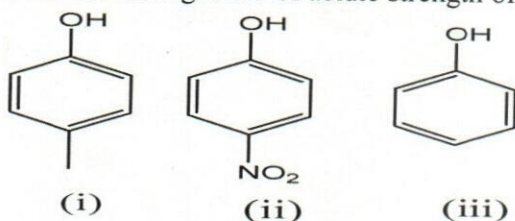
SECTION: A

.....10 Marks

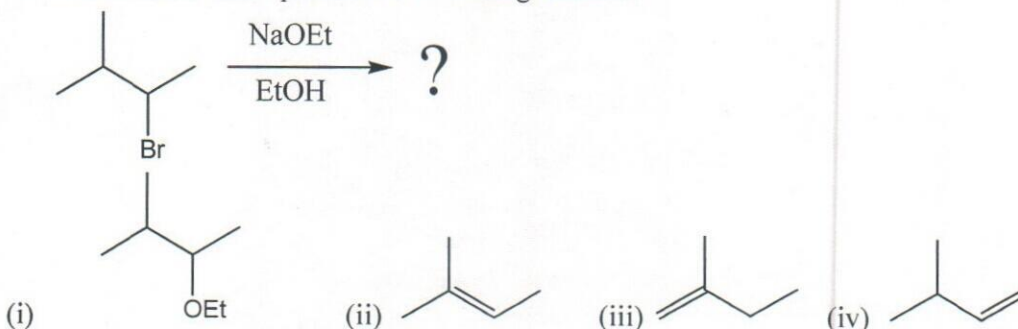
1. Describe the following chemical reactions is:



- (i) SN1 (iii) E2
 (ii) E1 (iv) SN2
2. Cyclopropenyl cation and cyclopentadienyl anion are:
- (i) Aromatic and anti-aromatic (iii) Anti-aromatic and aromatic
 (ii) Both are aromatic (iv) Both are anti-aromatic
3. In electrophilic aromatic substitution reactions which intermediate are involve:
- (i) Carboanion (iii) carbocation
 (ii) Free radical (iv) carbene
4. Draw the structural formula of following compounds:
- (i) 3,3,6,6-tetraethyl-4-octyne (ii) 5-chloro-4-methyl-3-heptanone
5. What major product results when 2-bromo-2-methyl butane is treated with sodium ethoxide?
6. Write the increasing order of acidic strength of following compounds:



7. Which is the main product of following reaction:



8. Which one is not prepared by wurtz reaction?

- (i) C_2H_6 (ii) $n-C_4H_{10}$ (iii) CH_4 (iv) both C_2H_6 and CH_4

9. In anti-markovnikov rule, reaction follows:

- (i) Free radical substitution (iii) Electrophilic addition
(ii) Free radical addition (iv) Nucleophilic addition

10. Write the formula of Gilman reagent?

SECTION: B

.....10 Marks

1. Explain the aromatic, anti-aromatic and non-aromatic characteristics by Huckel rule with suitable example?
2. Explain why cyclohexane is free from ring strain? And also explain the different conformation of cyclohexane with their stability order?
3. Describe the Diels Alder reaction and also explain the different factors to affect the reaction rate?
4. Explain the different types of reaction intermediates involve in chemical reaction and also describe their stability order?
5. Explain the following reaction with mechanism?
 - (i) Sandmeyer reaction
 - (ii) Oxymercuration- demercuration

SECTION: C

.....10 Marks

1. Explain the different types of nucleophilic substitution reactions (SN_1 , SN_2 and SN_i) with their mechanism as also describe the different factors which affect the reaction rate?
2. Explain the different types of electrophilic aromatic substitution reaction and their mechanism?