

Visit: <https://pharmacyindia.co.in>

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination Summer-2023

Course : B. Pharmacy
Subject Name : Pharmaceutical Organic Chemistry-I
Max Marks : 75
Date: 08-09-2023
Sem: II
Subject Code : BP202T
Duration : 3 Hr.

Instructions:

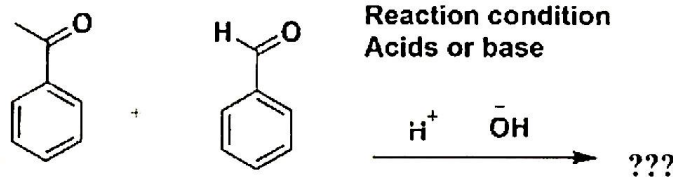
<https://pharmacyindia.co.in/>

- All questions are compulsory
- Draw diagrams / figures wherever necessary
- Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions) (10 x 2) = 20

- Define electrophile and nucleophile with example?
- Write down the structures of
 - 2-methyl-3-chloro-1-pentene
 - 5-fluoro-3-hydroxy-pentanoic acid
- Enlist the qualitative test for Aldehyde?
- Explain basicity of amine?
- Write down the structure and uses of benzyl alcohol?
- Enlist the reactions of carbonyl compounds?
- What is the hybridization of carbon atom present in
 - Alkanes
 - Alkenes
- Predict the product as per the Crossed Aldol Condensation in the following reaction?

<https://pharmacyindia.co.in/>



- Define carbocation and carbanion?
- What is inductive effect?

Q. 2. Long Answers (Answer 2 out of 3)

(2 x 10) = 20

- What elimination reaction? Explain reaction, mechanism kinetics, and order of reactivity of E1 and E2 reaction?
- Why Aldehydes and ketones are susceptible for nucleophilic addition reactions? Explain the reaction and mechanism of Aldol condensation and benzoin condensation?
- Write in detail about bimolecular nucleophilic substitution reaction (SN2) along with suitable example?

Q. 3. Short Answers (Answer 7 out of 9)

(7 x 5) = 35

- Write down the Rules for IUPAC Nomenclature for organic compounds?
- Write a short note on isomerism in organic compounds?
- Discuss about the free radical addition reactions of conjugated dienes?
- Describe with example, halogenation of alkane?
- Explain Diel-Alder reaction?
- Write short note on Cannizzaro's reaction?
- Write about the Markownikoff's rule and Anti-Markownikoff's rule?

<https://pharmacyindia.co.in/>

- viii)** What are carboxylic acids? Explain the effect of substituents on acidity of carboxylic acids? **Visit: <https://pharmacyindia.co.in>**
- ix)** Draw the structures of a) Benzoic acid b) Ethanolamine c) Ethylenediamine d) Dichloromethane e) Benzaldehyde

<https://pharmacyindia.co.in/>

-----END OF THE PAPER-----

[🌐pharmacyindia.co.in](https://pharmacyindia.co.in/) | [✉pharmacyindia24@gmail.com](mailto:pharmacyindia24@gmail.com) | [📞8171313561, 8006781759](tel:8171313561)



Download **PHARMACY INDIA** App from Google Play Store

<https://pharmacyindia.co.in/>

<https://pharmacyindia.co.in/>