



DDJ-202-T

Seat No. _____

**Master of Pharmacy Management
(Sem. II) Examination**

September – 2022

BP-202-T : Pharmaceutical Organic Chemistry-I

Time : 3 Hours]

[Total Marks : 75

1 Answer the following questions : **20**

- (1) Define and classify different types of isomers.
- (2) Define and classify different types of hybridization of carbon.
- (3) What is Grignard reagent ? Write its method of preparation.
- (4) Explain Saytzeff rule with example.
- (5) Write any two qualitative identification tests for alcohol.
- (6) Write reaction involved in Benzoin condensation.
- (7) What is Grignard reagent ? Write its method of preparation.
- (8) Bromination of alkane is more selective than chlorination. Why ?
- (9) Conjugated diene is more stable than isolated diene. Why ?
- (10) Ethylene diamine is less basic than ammonia. Why ?

2 Answer the following questions : (any **two**) **20**

- (1) Explain SN_1 and SN_2 reaction, mechanism and stereochemistry of Alkyl halide.
- (2) Define hybridization. Explain hybridization of carbon in alkanes and alkene.
- (3) Write reaction, mechanism and application of following reaction.
 - Aldol and crossed aldol condensation
 - Cannizaro and crossed Cannizaro reaction
 - Perkin condensation

3 Answer the following question : (any seven)

35

- (1) Write a note on structural isomerism in organic compound.
 - (2) Explain Markownikoff's rule and anti Markownikoff's rule with example.
 - (3) Explain effect of substituent on Acidity of carboxylic acids with suitable example.
 - (4) Explain qualitative identification test and laboratory methods for preparation of alcohol.
 - (5) Explain E2 versus E1 reactions in alkene.
 - (6) What is conjugated diene. Explain its stability and reactions.
 - (7) Give structure and uses of following compounds :
 - (a) Amphetamine
 - (b) Propylene glycol
 - (c) Chloral hydrate
 - (d) Ethylenediamine
 - (e) Tartaric acid
 - (8) Explain any two methods for preparation of aldehyde and ketone.
 - (9) Explain any two methods of synthesis and qualitative identification tests for aliphatic amine.
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