

Topic : Alcohols, Phenols and Ethers (Reaction Mechanism)
Type of Questions

Single choice Objective ('-1' negative marking) Q.1 to Q.6

(3 marks 3 min.)

M.M., Min.

[18, 18]

True or False (no negative marking) Q.7

(2 marks 2 min.)

[2, 2]

Comprehension ('-1' negative marking) Q.8

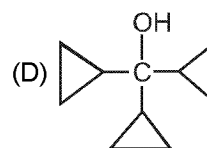
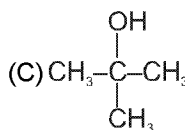
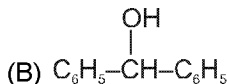
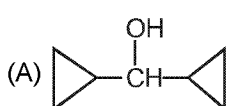
(3 marks 3 min.)

[3, 3]

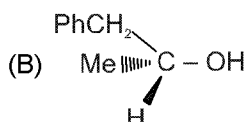
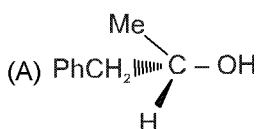
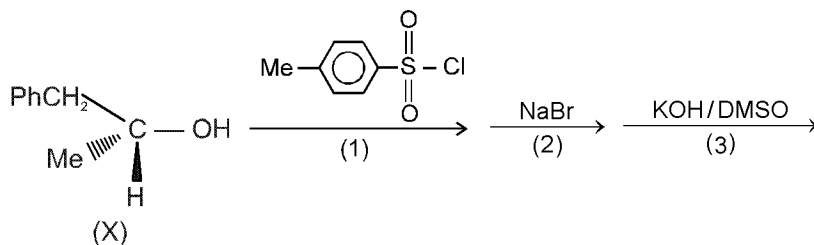
Subjective Questions ('-1' negative marking) Q.9

(4 marks 5 min.)

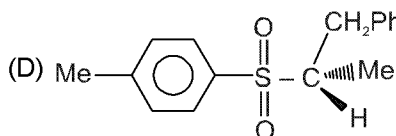
[4, 5]

 1. Which one of the following will be most reactive for S_N1 reaction ?


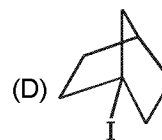
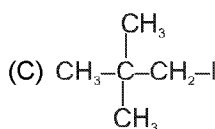
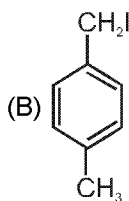
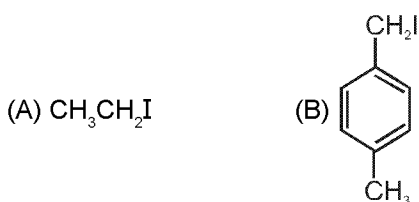
2. In the following reaction product is :



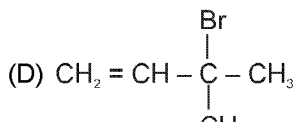
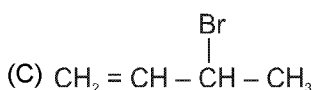
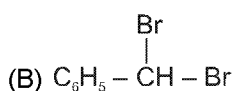
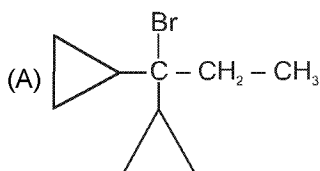
(C) A and B both



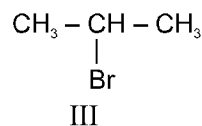
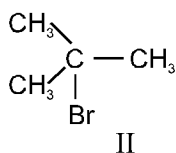
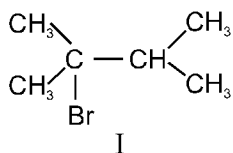
3. Substrate that show E1 reaction



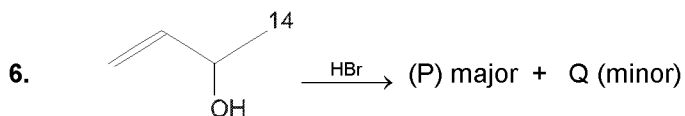
4. Which of the following will be most reactive for E1 reaction ?



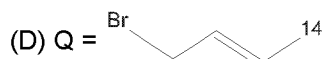
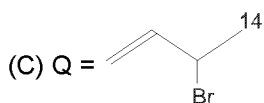
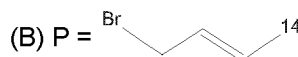
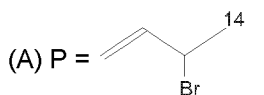
5. Write the correct reactivity order with alcoholic NaOH for the following compounds ?



- (A) I > II > III (B) III > II > I (C) I > III > II (D) II > III > I

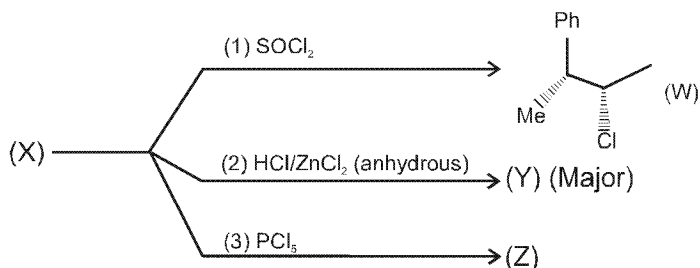


Which of the following is/are correct :

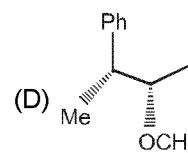
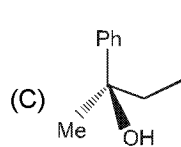
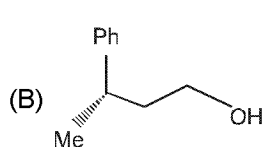
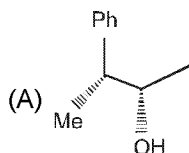


7. Aryl halides undergo nucleophilic substitution with ease.

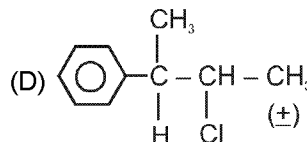
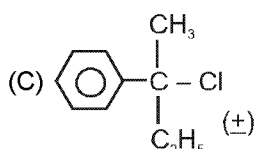
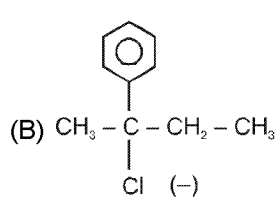
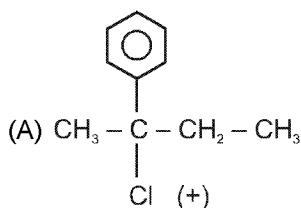
8. Comprehension :



(a) The compound (X) is



(b) The compound (Y) is



(c) What is true about (Z)

- (A) It is identical to (W)
(C) It is diastereomer of (W)

- (B) It is enantiomer of (W)
(D) It is structural isomer of (W)

9. Explain Lucas test used to distinguish primary, secondary and tertiary alcohol.

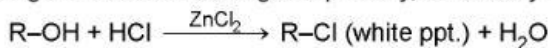


Answer Key

DPP No. # 21

1. (D) 2. (B) 3. (C) 4. (A) 5. (A)
6.* (BC) 7. False 8. (a) (A) (b) (C) (c) (C)

9. Lucas reagent is used to distinguish primary, secondary and tertiary alcohol.



3° Alcohol → Instant turbidity

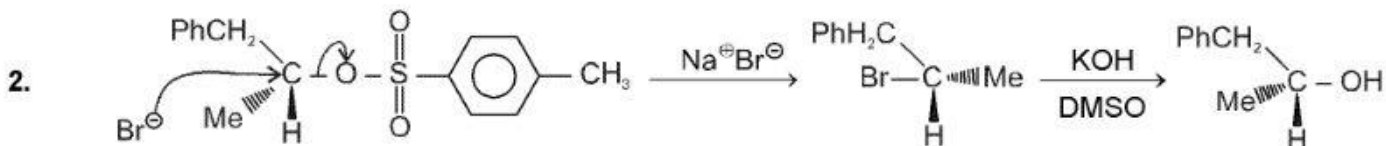
2° Alcohol → After 5 minute turbidity appear.

1° Alcohol → After 30 minute turbidity appear.

Hints & Solutions

DPP No. # 21

1. According to carbocation stability



4. According to stability of carbocation

7. The carbon halogen bond in aryl halides has partial double bond character.

