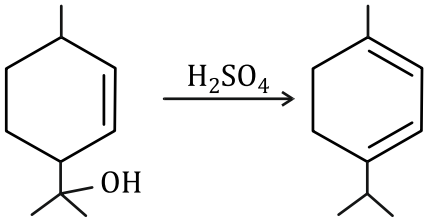
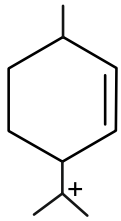
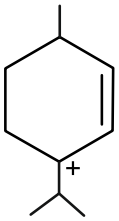
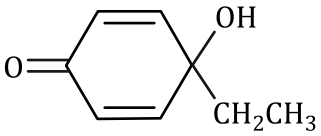
DPP-3

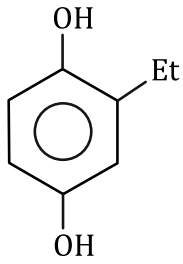
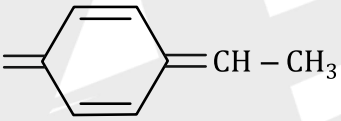
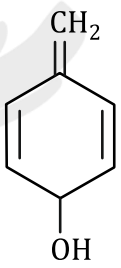
1. 

Which carbocation is involved in the above reaction?

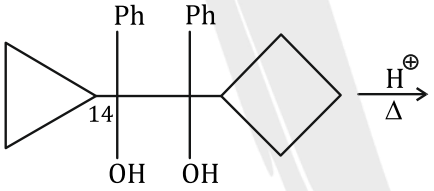
(A)  (B)  (C) (A)and (B) both (D) None of these

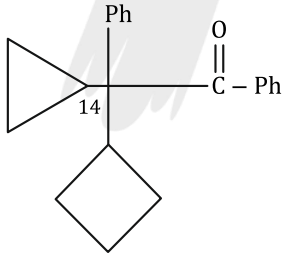
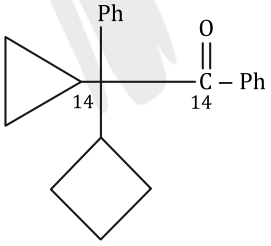
2. 

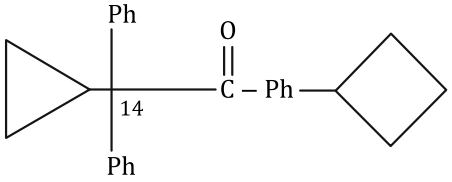
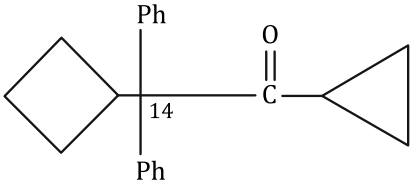
X, X is:

(A)  (B)  (C)  (D) 

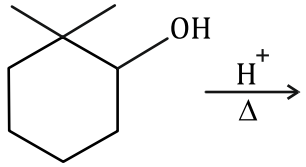
3. Major product in following reaction is:

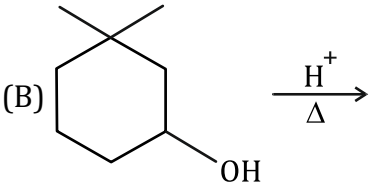


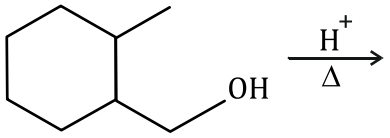
(A)  (B) 

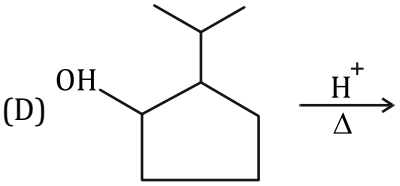
(C)  (D) 

4. Which of the following reaction will produce same major product?

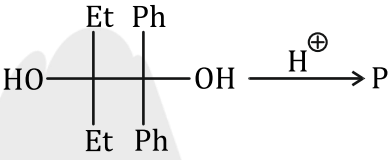
(A) 

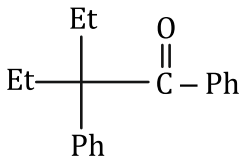
(B) 

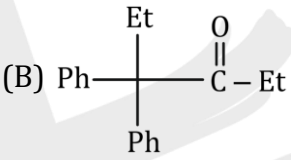
(C) 

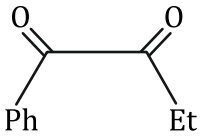
(D) 

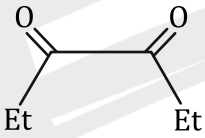
5. Major product 'P' of the following reaction is:



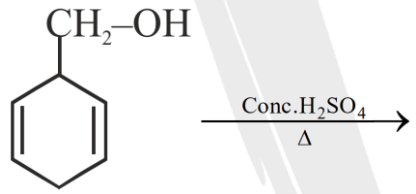
(A) 

(B) 

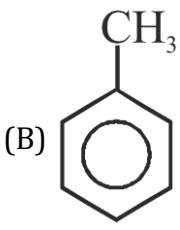
(C) 

(D) 

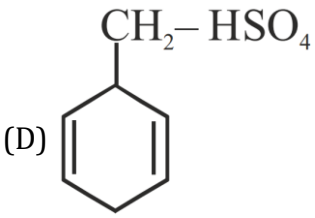
6. Major product in following reaction is:



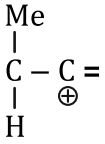
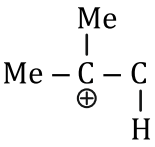
(A) 

(B) 

(C) 

(D) 

7. Assertion & Reason.

Statement-1: If during a reaction  is generated, it quickly rearranges into  by hydride shift.

Statement-2: Hydride is better migrator than methyl during carbocation rearrangements.

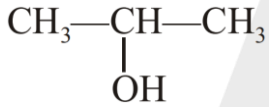
(A) Statement-1 is true, statement-2 is true and statement-2 is correct explanation for statement-1.

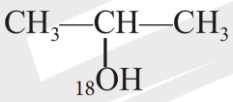
(B) Statement-1 is true, statement-2 is true and statement-2 is NOT the correct explanation for statement-1.

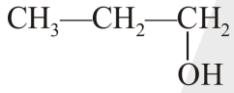
(C) Statement-1 is true, statement-2 is false.

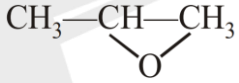
(D) Statement-1 is false, statement-2 is true.

8. $CH_3—CH=CH_2 \xrightarrow[(ii)\ H_3\overset{\oplus}{O}{}^{18}]{(i)\ conc.\ H_2SO_4}$ Major product

(A) 

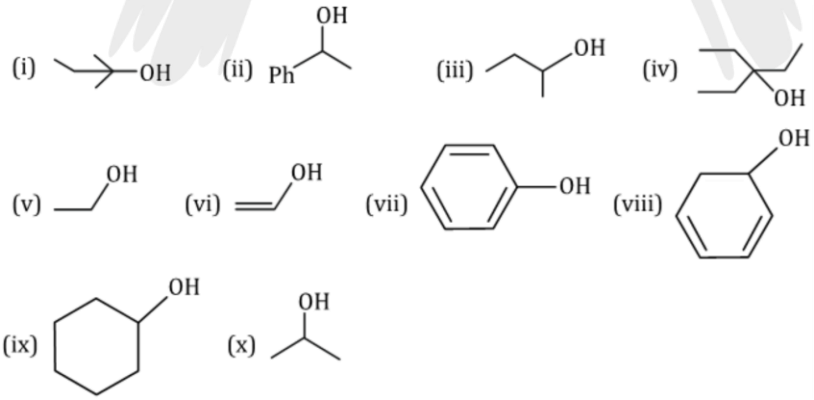
(B) 

(C) 

(D) 

9. How many alkenes on reaction with dil. H_2SO_4 produces 2,3-dimethyl butan-2-ol?

10. How many alcohols shows faster dehydration reaction rate than 2-methyl propan-2-ol  . ?



ANSWER KEY

1.	**(C)**	**2.**	**(A)**	**3.**	**(A)**	**4.**	**(ACD)**	**5.**	**(B)**	**6.**	**(B)**
7.	**(D)**	**8.**	**(B)**	**9.**	**(3)**	**10.**	**(2)**				