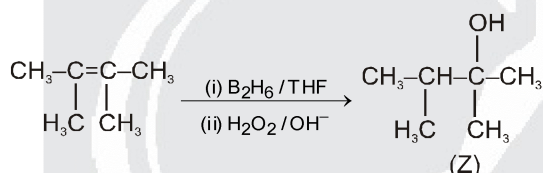
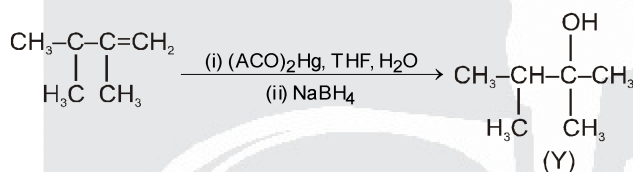
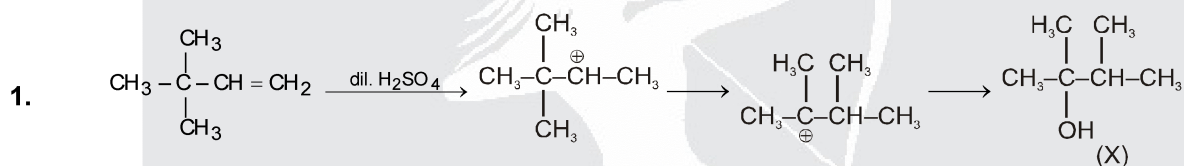


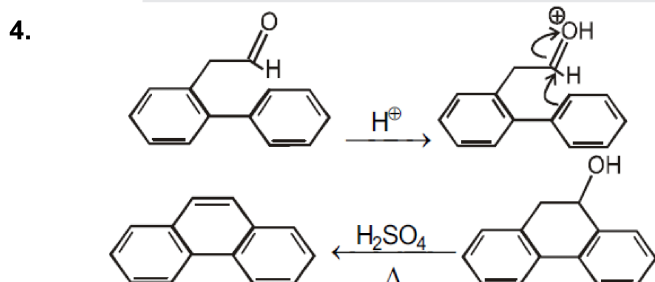
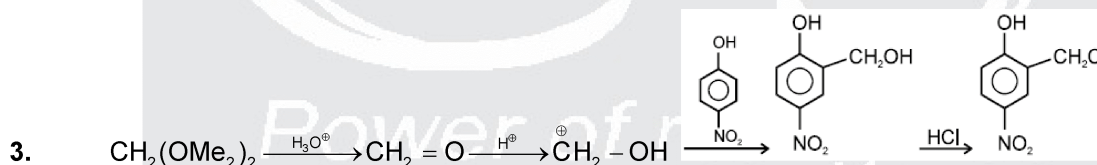
Answer Key

1.	(D)	2.	(C)	3.	(B)	4.	(D)	5.	(B)
6.	(B)	7.	(B)	8.	(B)	9.	(B)	10.	(B)
11.	(B)	12.	(B)	13.	(B)	14.	(A)	15.	(A)
16.	(C)	17.	(BCD)	18.	(AB)	19.	(AB)	20.	(2)
21.	(12)	22.	(A → p,s,t; B → q,r,t; C → s; D → s,t)						

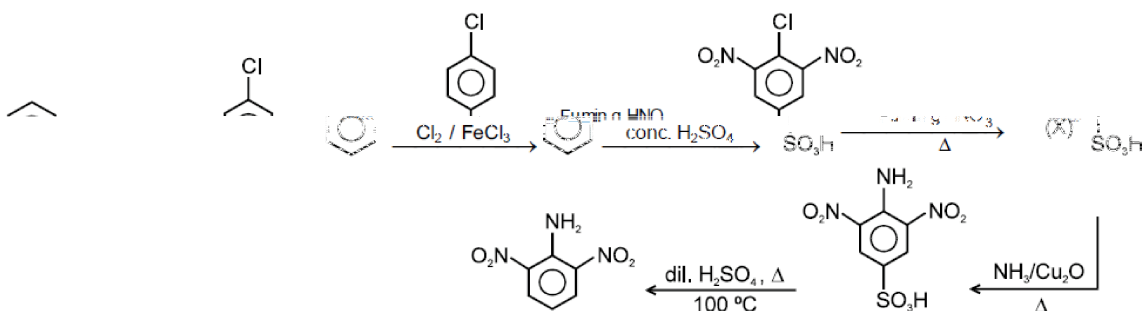
Solution


All products are identical.

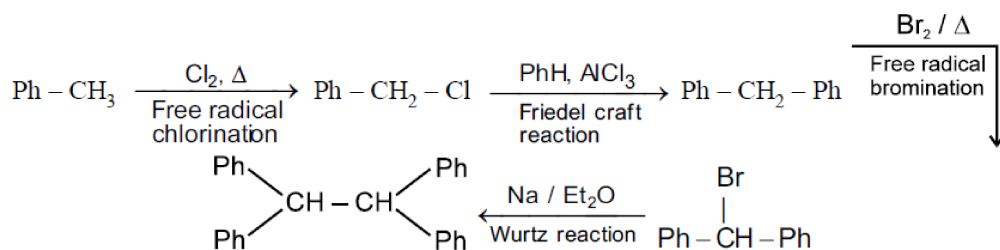
2. X = Hydroboration oxidation, Y = oxymercuration & demercuration, Z = Simple hydration reaction



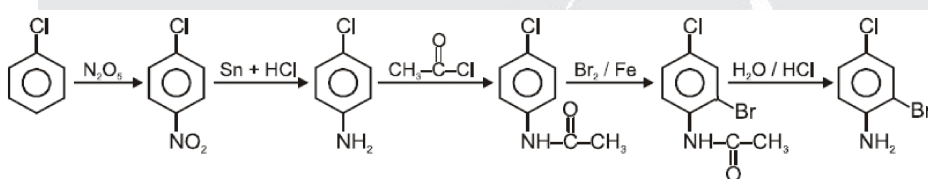
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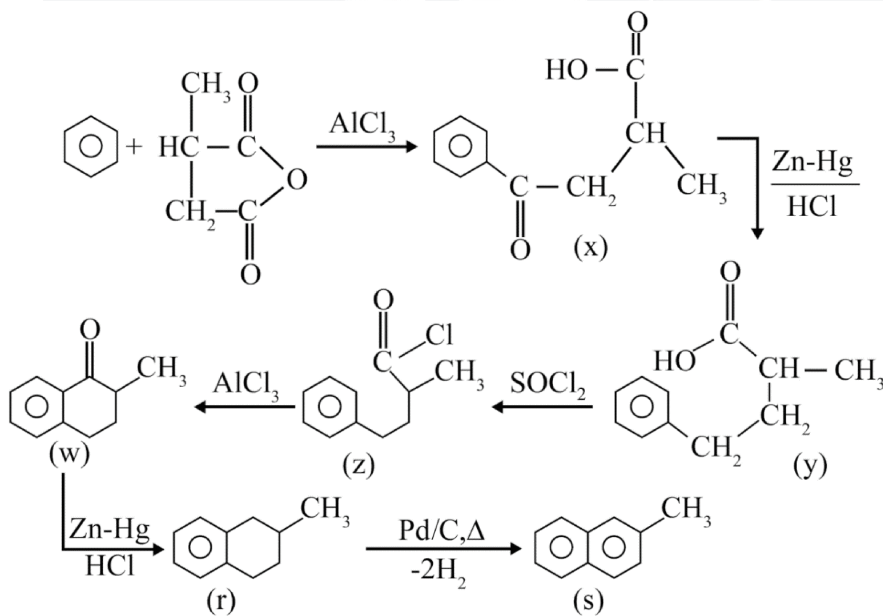
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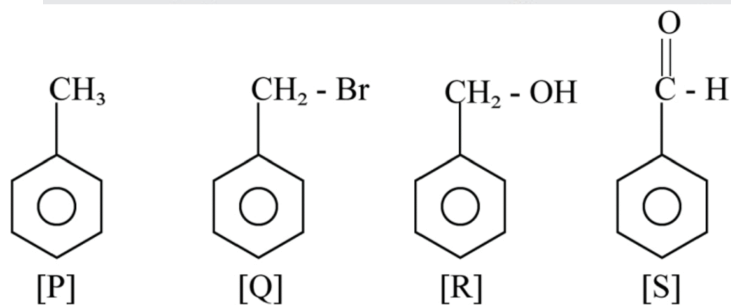
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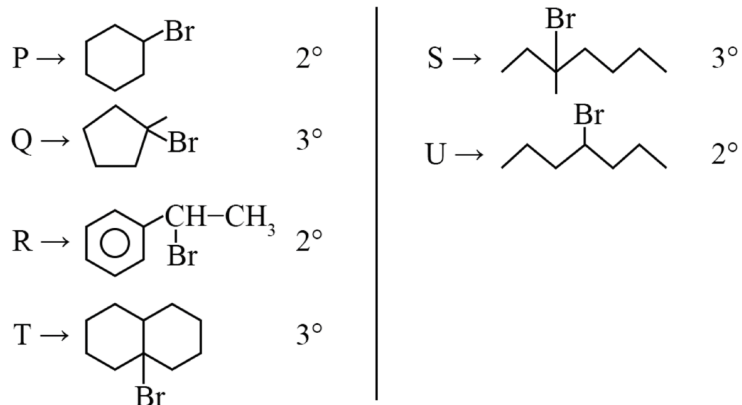
8.



9.

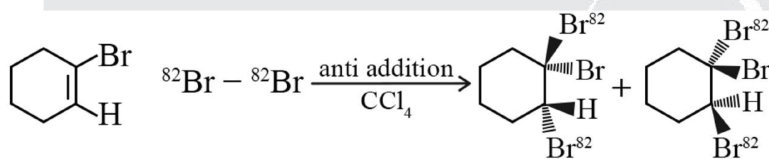


10.

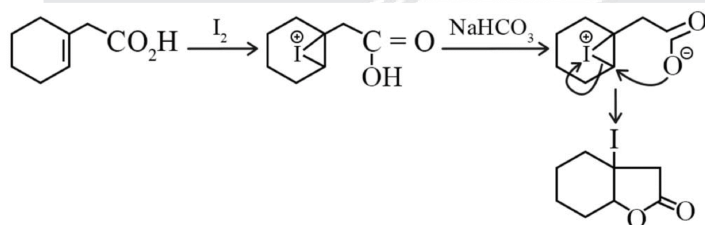
11. OsO₄ does syn addition

So answer is (b).

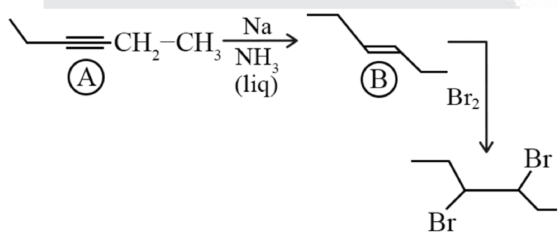
12. Anti addition will take place.



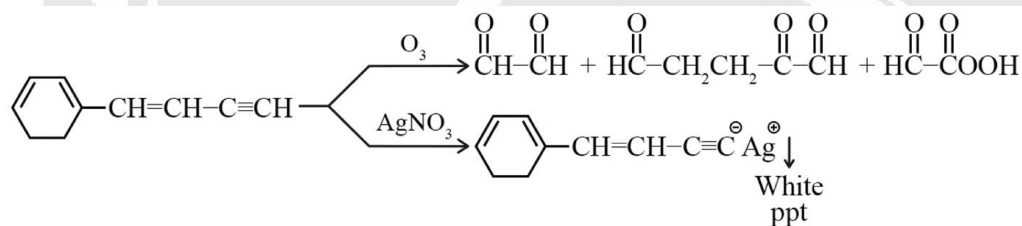
13.



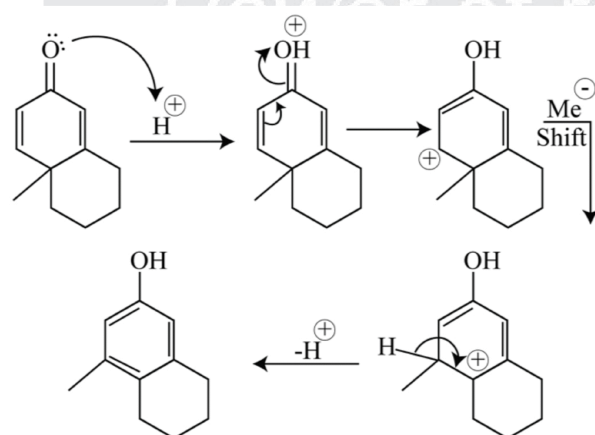
14.



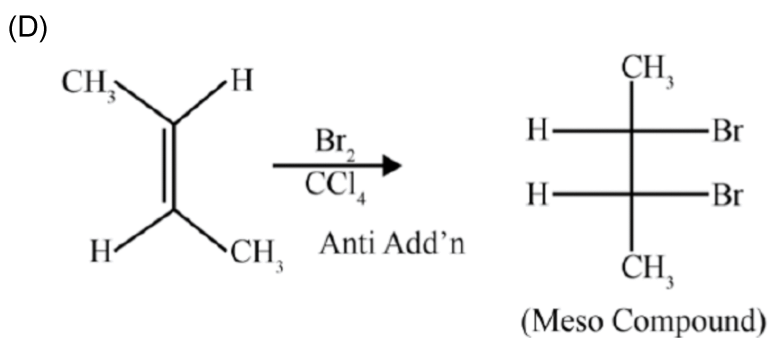
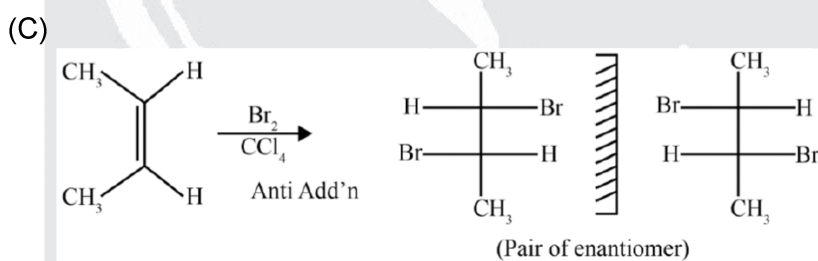
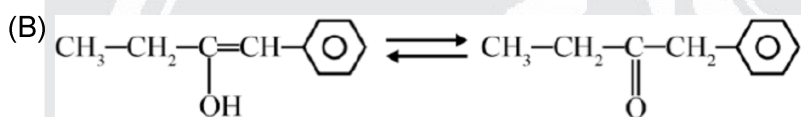
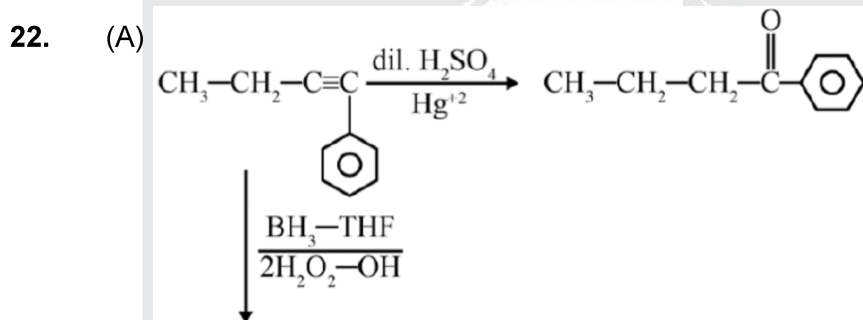
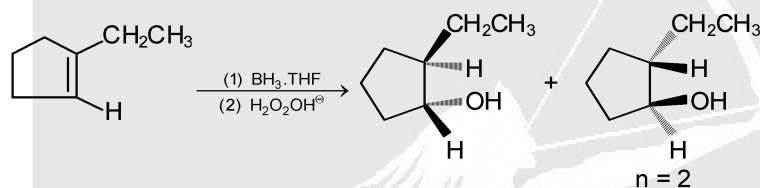
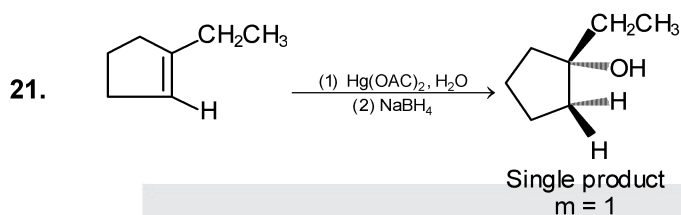
15.



16.

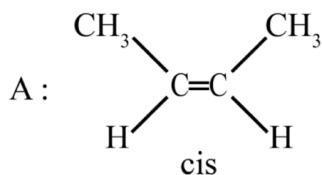


17. (BCD)
 18. (AB)
 19. (AB)
 20. Only (iii) & (v)

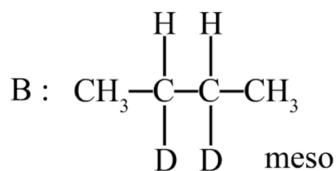


23. (a) A is $\text{PhCH}_2\text{CH}=\text{CH}_2$; B is $\text{PhCH}_2\text{CH}_2\text{CH}_2\text{OH}$; C is (Fridel Crafts)

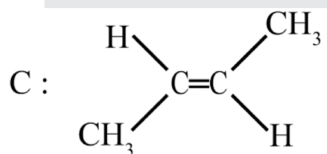
24. A is obtained by syn addition



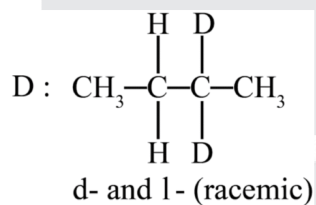
B is also obtained by syn addition



C is obtained by anti addition

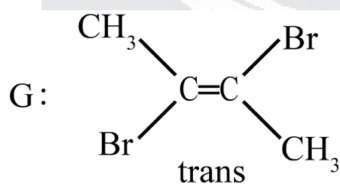
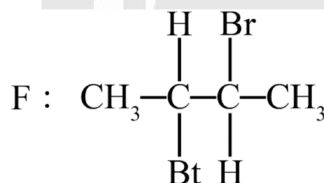


D is mixture of d-and l-(racemic mixture)



E is obtained by syn addition E : as A

Addition of Br_2 is anti



H : as F