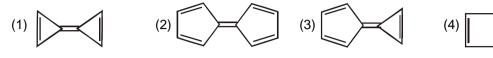
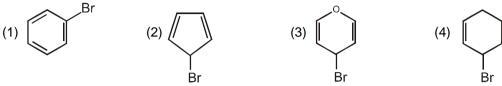
Me



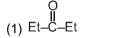
1. Which one of following compounds is aromatic in nature ?

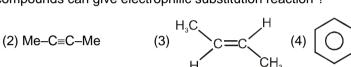


2. Ease of ionization to produce carbocation & bromide ion under the treatment of Ag⁺ will be maximum in ?

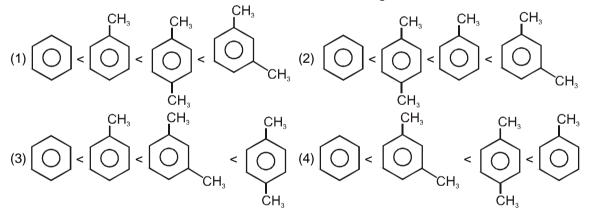


3. Which one of following compounds can give electrophilic substitution reaction ?

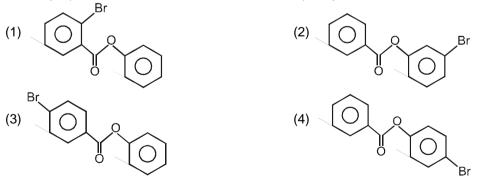




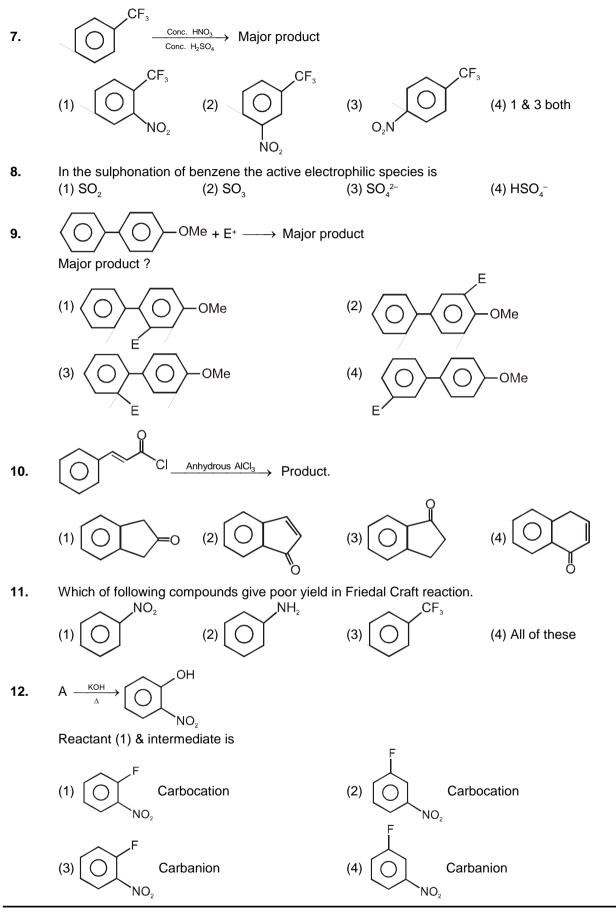
- 4. O → E⁺ → Name of intermediate produced during given reaction will be
 (1) Arenium ion
 (2) σ complex/wheland intermediate
 (3) Non aromatic cyclohexa-dienyl carbocation
 (4) All of these
- 5. Which of following is correct order of reactivity towards the ArS_{P2} ?



6. The major product formed on monobromination of phenylbenzoate is :



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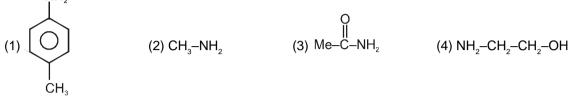
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13. Which of following compound gives carbyl amine reaction



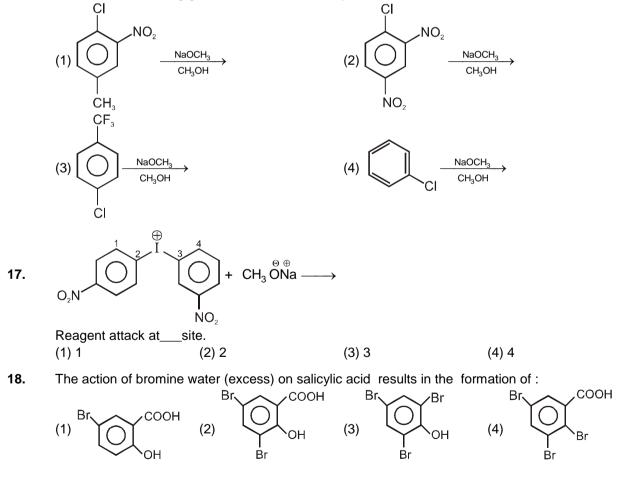
14. The compound which does not give foul smell when heated with $CHCI_3 \& KOH$ is NH_3

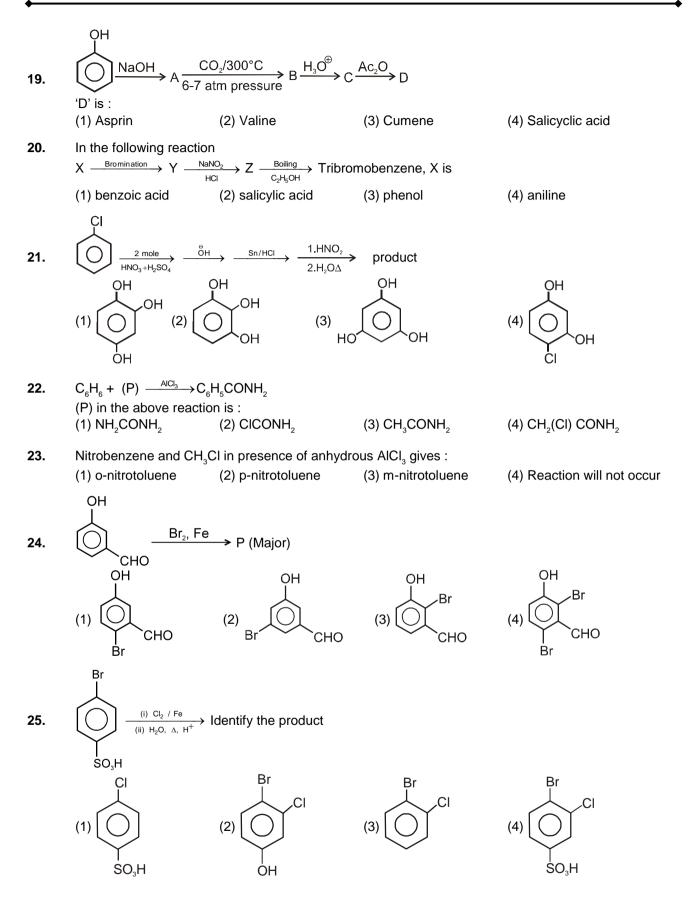


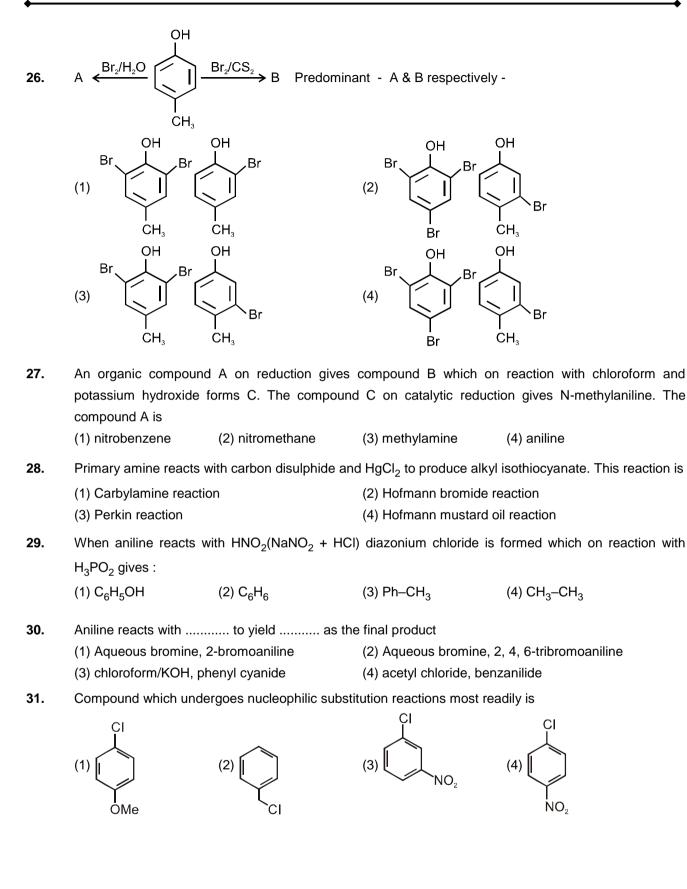
15. Which one of following species is the most stable arenium ion ?



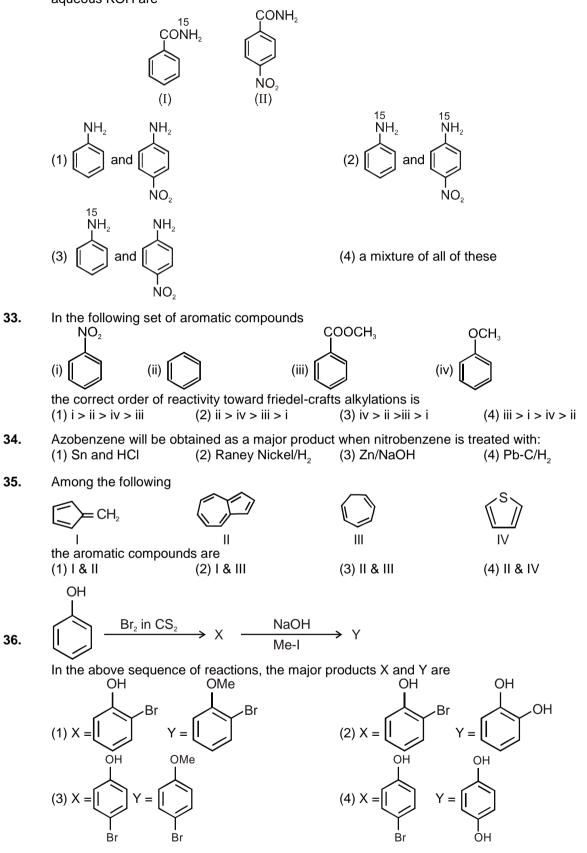
16. Which of the following gives faster rate of nucleophilic substitution reaction ?

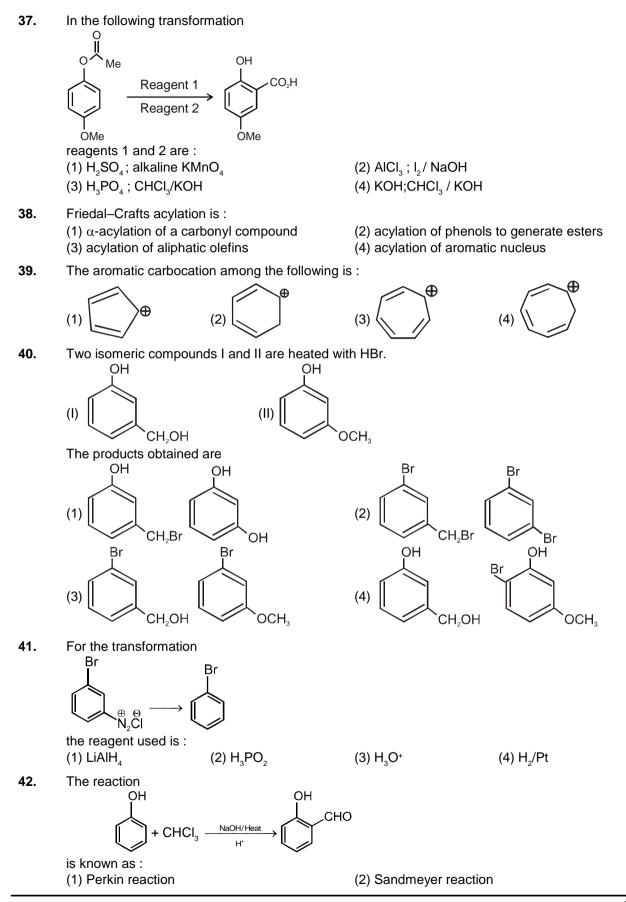






32. The products formed when a mixture of the following two amides (I and II) are treated with bromine and aqueous KOH are

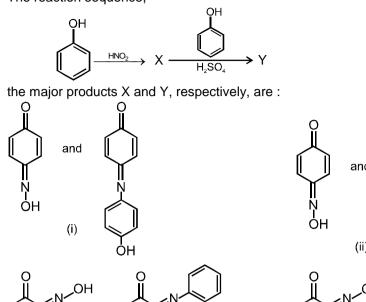


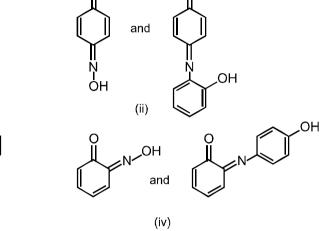


(3) Reimer-Tiemann reaction

(4) Cannizzaro reaction

43. The reaction sequence,





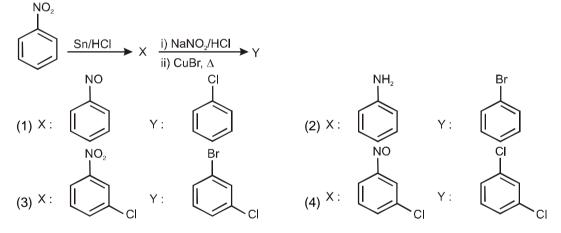
(4) iv

(2) ii 44. The products X and Y in the following reaction sequence are :

and

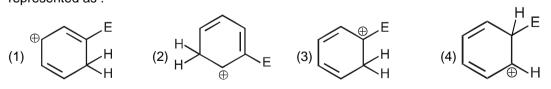
(iii)

(1) i



(3) iii

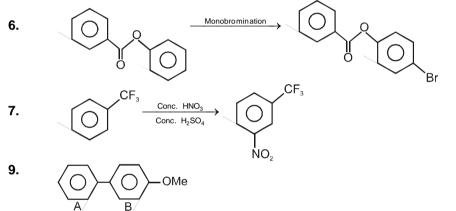
45. In the reaction of benzene with an electrophile E⁺, the structure of the intermediate σ -complex can be represented as :



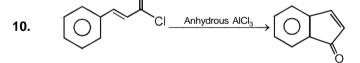
	SP	P A	nsv	/er s									
1.	(3)	2.	(3)	3.	(4)	4.	(4)	5.	(1)	6.	(4)	7.	(2)
8.	(2)	9.	(2)	10.	(2)	11.	(4)	12.	(3)	13.	(2)	14.	(3)
15.	(4)	16.	(2)	17.	(2)	18.	(3)	19.	(1)	20.	(4)	21.	(1)
22.	(2)	23.	(4)	24.	(1)	25.	(3)	26.	(1)	27.	(1)	28.	(4)
29.	(2)	30.	(2)	31.	(2)	32.	(3)	33.	(3)	34.	(3)	35.	(4)
36.	(3)	37.	(2)	38.	(4)	39.	(3)	40.	(1)	41.	(2)	42.	(3)
43.	(1)	44.	(2)	45.	(4)		()		()		~ /		. ,

SPP Solutions

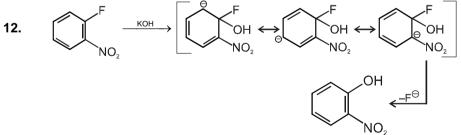
- 2. \bigcup_{Br}^{0} gives \bigcup_{\oplus}^{0} aromatic carbocation.
- 3. Aromatic compounds give electrophilic substitution reaction.



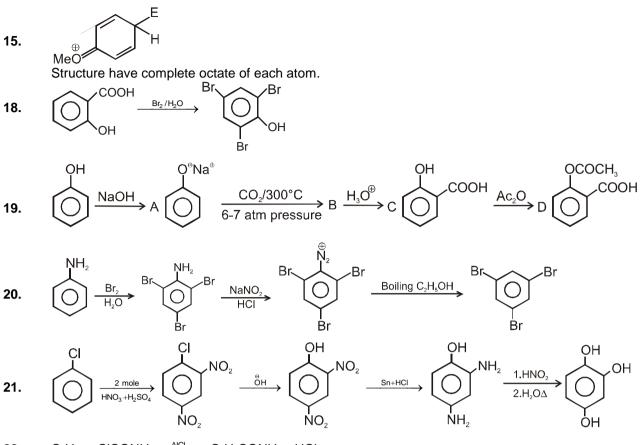
Ring B have higher electron density than ring A. So electrophile attack on ring B.



11. Highly deactivated ring gives poor yield in Friedal Craft reaction.



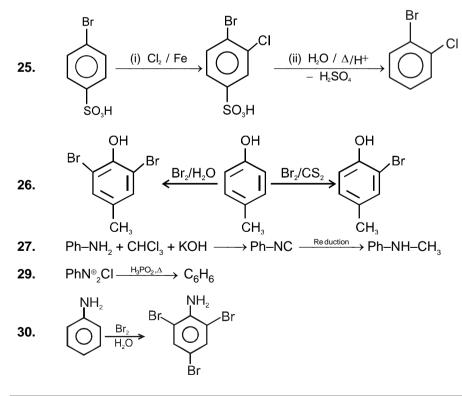
- **13.** 1° amine gives carbyl amine test.
- **14.** Only 1^o amine give carbyl amine test. 1^o Amide does not gives carbyl amine test.



22.
$$C_6H_6 + CICONH_2 \xrightarrow{AICI_3} C_6H_5CONH_2 + HCI$$

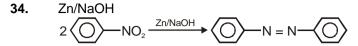
23. All -m group do not show friedel craft reaction.

24. Orientation decided by more activating –OH group [+ M effect].

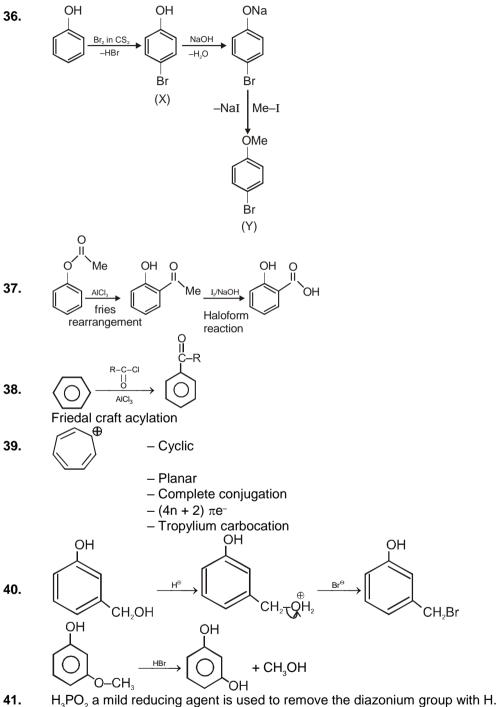


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33. Reativity towards Friedel-Crafts alkylation is proportional to electron density in the benzene ring.



35. (II) & (IV) Because both have close system of conjugated double bond and follow Huckel's (4n+2) πe^{-r} rule.



41. $\Pi_3 = O_2$ a mild reducing agent is used to remove the diazonium gr

