	(A)	(B)
ANSWER	Phenol	o-Hydroxy benzaldehyde / Salicylaldehyde
	(C)	(D)
	p-Hydroxy benzaldehyde	Aniline / Amino benzene

5. Compound A (C_6H_6O) gives violet colouration with neutral FeCl₃. With CO₂ at 400 K/4 to 7 atm. followed by acidification with HCl gives B ($C_7H_6O_3$) also gives violet colouration with neutral FeCl₃ and gives effervescence with NaHCO₃ solution. Compound A reacts with NH₃at 473 K in the presence of anhydrous ZnCl₂ to give compound C (C_6H_7N) which undergoes carbylamine test. Identify A, B, C and explain the reactions.

ANSWER	(A)	(B)
	Phenol	o-Hydroxy benzaldehyde / Salicylaldehyde
	(C)	
	p-Hydroxy benzaldehyde	Amino benzene

6. An organic compound (A) of molecular formula C_6H_4C give violet colour with neutral FeCl₃. (A) gives maximum of two somers (B) and (C) when a carkaline solution of (A) is refluxed with CCl₄. (A) also react, with $C_6H_5N_5C$ to give be compound (D) which is a red orange dye. Identify (A), (B), (C) and (D). Explain with suitable chemical reactions.

ANSWER	(A) Phenol	(B) o-Hydroxy benzoic acid / Salicylic acid
	(C)	(D)
	p-Hydroxy benzoic acid	p-Hydroxy azo benzene

7. An organic compound A (C_6H_6O) gives violet colour with neutral FeCl₃. A gives two isomers B and C, when an alkaline solution of A is refluxed with CCl₄. A also reacts with formaldehyde and sodium hydroxide to give compound D. Identify A, B, C and D. Explain with suitable chemical reactions.

ANSWER	(A)	(B)
	Phenol	o-Hydroxy benzoic acid /
		Salicylic acid