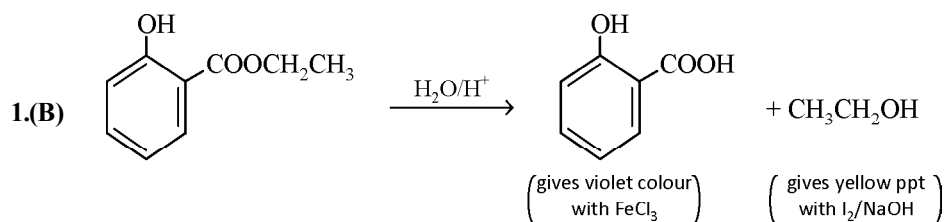


# SOLUTIONS

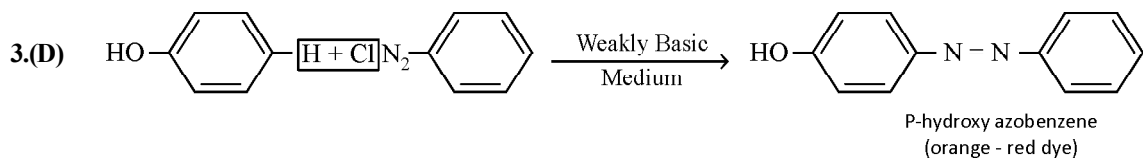
## Module - 5 / JEE-2021

In-Chapter Exercises	Chemistry	Organic Qualitative and Quantitative Analysis
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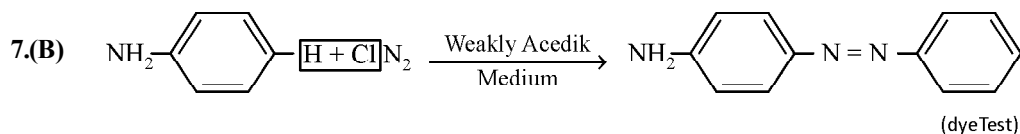
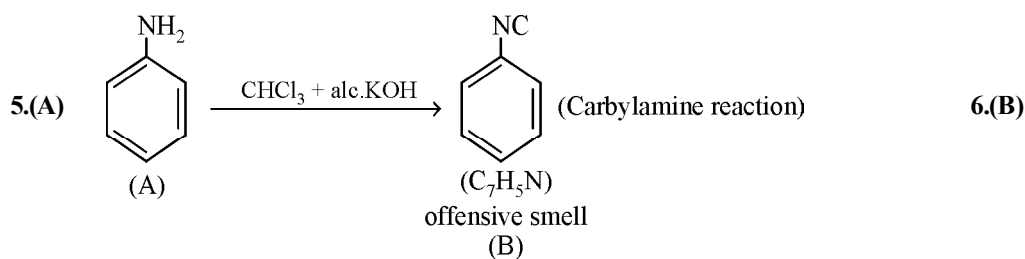
### EXERCISE



2.(B) Organic compound which contains both N and S gives red colour in Lassaigne's test

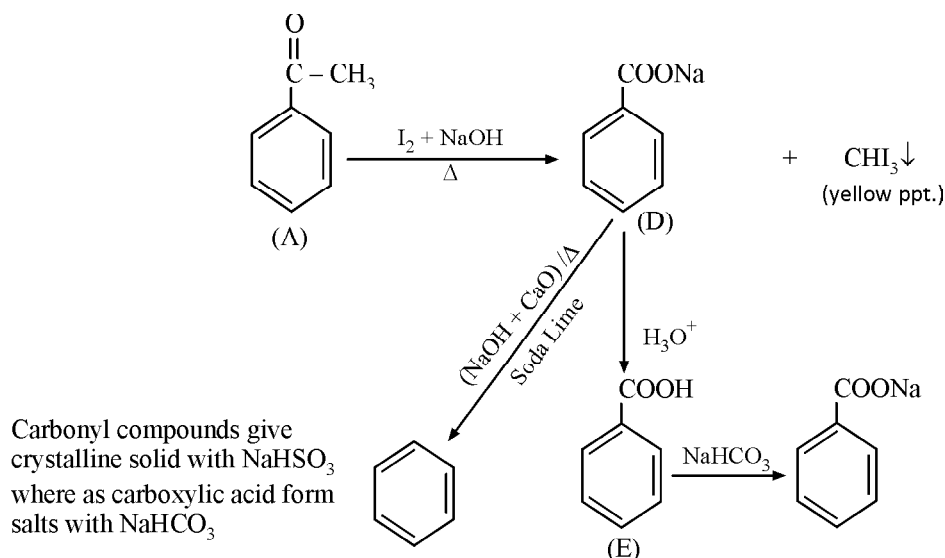


4.(D) Aldehydes give positive Tollen's test whereas ketone do not give positive Tollen's test.

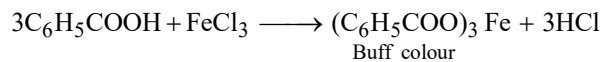


Solutions to Q. 8 to 10.

8.(C)



9.(A) Benzoic acid gives buff coloured precipitate with  $\text{FeCl}_3$ .



10.(B)

11.(D) A - 4, B - 1, C - 3, D - 2

Alcohol ( $1^\circ$ ,  $2^\circ$ ,  $3^\circ$ ) distinguished by the Lucas reagent (A - 4)

Ethanal give positive Iodoform test while Methanal does not (B - 1)

Terminal alkynes gives white precipitate with ammonical silver nitrate (C - 3)

Unsaturated compounds decolourize the red colour of  $\text{Br}_2/\text{H}_2\text{O}$  (D - 2)

12.(B) Unsaturated compounds decolourize the red colour of  $\text{Br}_2/\text{H}_2\text{O}$  therefore 1-Butyne and 2-Butyne cannot be distinguished by  $\text{Br}_2/\text{H}_2\text{O}$  test.