

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

ALCOHOLS, PHENOLS AND ETHERS

SESSION -2024-25

CLASS - 12th

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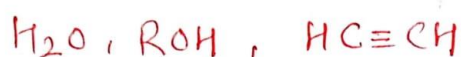
VACATION Apr, May & Jun (Every Year)

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Time : 1 hr : Alcohols, Phenols and Ethers : mm:

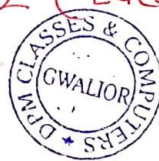
Q. 1. Arrange the following compounds in decreasing order of acidity -



Q. 2. How can propan-2-one be converted into tert-butyl alcohol?

Q. 3. Explain why is $O=C=O$ non-polar while $R-O-R$ is polar?

Q. 4. Why is the reactivity of the three classes of alcohols with conc. HCl and $ZnCl_2$ (Lucas reagent) different?



Q. 5. Ethers can be prepared by Williamson Synthesis in which an alkyl halide is reacted with sodium alkoxide. Di-tert-butyl ether can't be prepared by this method. Explain.

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Q. 6. Explain why low molecular mass alcohols are soluble in water?

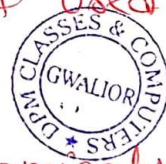
Q. 7. Explain why p-nitrophenol is more acidic than phenol?



Q. 8. Explain why alcohols and ethers of comparable molecular mass have different boiling points?

Q. 9. The Carbon-oxygen bond in phenol is slightly stronger than that in methanol. Why?

Q. 10. (a) Name the starting material used in the industrial preparation of phenol.



(b) Write complete reaction for the bromination of phenol in aqueous and non-aqueous medium.

(c) Explain why Lewis acid is not required in bromination of phenol?

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