



# GOVIND VIDYALAYA TAMULIA

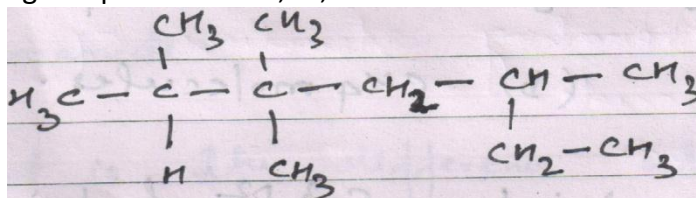
(A Senior Secondary School Affiliated to C.B.S.E. (New Delhi) School No - 08249)  
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## RETEST PRACTICE SHEET FOR FINAL TERM EXAMINATION 2014-2015

### SUBJECT:-CHEMISTRY

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- Define hyper conjugation? Discuss the hyper conjugative effects in an unsaturated system.
- How many hyper conjugated **bonds** are formed in 2-Methylpropene and But – 2- ene.
  - Classify the following compound into  $1^{\circ}$ ,  $2^{\circ}$ ,  $3^{\circ}$  and  $4^{\circ}$  carbon atoms



- Write the structures of the following-
  - 2 – Amino – 3 hydroxy – 4 - oxopentanoic acid .
  - 5,6 – Dimethyl cyclohex – 2 – en – 1 – one.
  - Phenanthrene.
  - Benz amide .
- What is the differences between Wurtz reaction and frank land reaction.
- How will you convert –
  - Maleic acid into Maleic anhydride
  - Fumaric acid into Maleic anhydride
- Balance the following redox reaction
  - $\text{Zn} + \text{HNO}_3 \longrightarrow \text{Zn}(\text{NO}_3)_2 + \text{N}_2\text{O} + \text{H}_2\text{O}$
- What is the oxidation number of C in HCN and HNC?
- Making use of the concept of hybridisation the shape of
  - $\text{BeCl}_2$
  - $\text{CH}_4$  molecules.
- A molecules involves  $\text{SP}^3\text{P}^2$  hybridisation. What type of shape is expected for the molecule?
- Draw the resonating structures of
  - Ozone molecule
  - Carbonate ion
- Distinguish between a sigma and pi bond.

### **Prepared by:**

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