

**DAV Public school,(ECL), S.P Mines Chitra**  
**Deepawali and Chhath holiday home assignments(16-17)**

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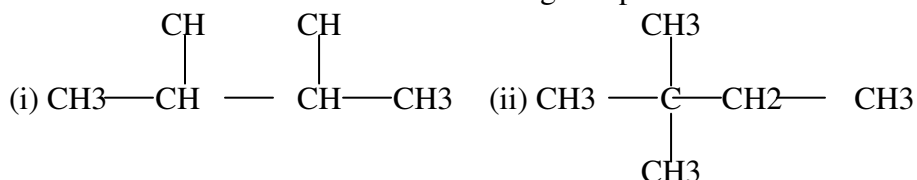
**CLASS - X B**

**Subject- Physics**

1. Define reflection, Refraction, Mirror and lens.
2. Explain mirror and lens formula.
3. Draw a ray diagram for an image formed by the object kept at different positions before the concave mirror and lens.
4. Discuss the uses of concave and convex mirror and convex lens.
5. Describe the sign convention for measure different distances used in mirror and lens formula.

**Subject- Chemistry**

1. Who synthesized first organic compound and how? (02)
2. Explain Vital force theory? Who proposed this theory? (02)
3. Write down the IUPAC name and structure of all the isomers of butane and pentane. (05)
4. Draw Lewis dot structure of cyclopentane, cyclohexane and cyclobutane. (03)
5. Write down the IUPAC name of following compounds.



6. What is homologous. Name the homologous of methanol, Ethanol and propanal. (03)
7. Write down the general formula of alkane, alkene and alkyne. Give example of each compound. (03)

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**PROJECT WORK**

**Subject- Biology**

1. Explain double fertilization in plants.
2. Draw and label the structure of bisexual flower.
3. What is pollination? Differentiate self and cross pollination.
4. Explain different phases of menstrual cycle in human females.
5. Explain the birth control methods in human.

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