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DEPARTMENT: NURSING.

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ASSIGNMENT.

- 1. The functional group present in each of the following molecules are:
 - i. CH₂=C(OH)HCHO:
 - Alkene (double bond)
 - OH (hydroxyl group)

R

- C=O (aldehyde/ alkanal)

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- ii. C₆H₅CH(NH₂)COCH₃
 - NH₂ (Amine)
 - Ring C₆H₅ with double bond (Phenyl group)
 - C-R (Alkanone/ketone) O
- iii. CH₃C=CHCH(OH)CHO
 - Alkene (C=C)
 - Hydroxyl group (OH)
 - Alkanal (CHO)

2.

$$[\propto]_1 = \frac{\sim}{c \cdot l}; \propto = +1.0^{\circ}, c = \frac{0.85l}{10} = 0.085l g/cm^{\circ}$$

$$= \frac{+1.0}{0.085l} = 11.68^{\circ}$$

3.
$$H - C - C = C - C = C - C - H$$

$$H H H H H H$$

a.
$$\frac{\text{Hexa-2, 4- diene.}}{\text{CH3}}$$
 i.
$$C = C - C = C$$
 H

Cis - 1, 4-dimethyl but-1, 4-diene.

ii.
$$CH3$$
 H $C = C - C = C$ H $CH3$ $Trans - 1, 4-dimethyl but-1, 4-diene.$

b. 2, 3 - Dimethyl but-2-ane

i.
$$CH_3$$
 CH3
$$C = C$$

$$CH3$$
 CH3

Neo - Butane.