

3. Mark the incorrect statements.

(a) Catalyst provides an alternative pathway to reaction mechanism.

(b) Catalyst raises the activation energy.

(c) Catalyst lower the activation energy.

(d) Catalyst alters enthalpy change of the reaction.

Solution: (b, d) .

(i) As the catalyst is added to the reaction medium rate of reaction increases by decreasing activation energy of molecule. Hence, it follows an alternative pathway.

(ii) Catalyst does not change the enthalpy change of reaction. Energy of reactant and product remain same in both catalysed and uncatalysed reaction. Hence, (a) and (c) are incorrect statements.