

Question 18. Which of the following statement is not correct for the catalyst?

- (a) It catalyzes the forward and backward reactions to the same extent.
- (b) It alters  $\Delta G$  of the reaction.
- (c) It is a substance that does not change the equilibrium constant of a reaction.
- (d) It provides an alternate mechanism by reducing activation energy between reactants and products.

Solution: (b)

Catalyst does not effect enthalpy of reaction since it increases and decreases the activation energy of products and reactants respectively by same amount.