## **QUESTION**

The change in optical rotation, with time, of freshly prepared solution of sugar is known as

- A) Rotatory motion
- B) Inversion
- C) Specific rotation
- D) Mutarotation

## ANSWER:

Correct Answer: D Solution :

$$\begin{array}{c|c} \alpha - D - Glucose \\ [\alpha] = +112^o \\ (36 & (0.02 & (64 & (1.005)6) \end{array} \end{array} \right| \begin{array}{c} \rightleftharpoons & \beta - D - Glucose \\ [\alpha]_D = +52^o \\ (64 & (64 & (1.005)6) \end{array} \right|$$
 Glucose has two forms a and b. When either of these

two is dissolved in water and allowed to stand, it gets converted to an equilibrium mixture of a and b forms.