## QUESTION:

Which of the following reactions of glucose can be explained only by its cycle	C
structure?	

A Glucose forms pentaacetate

B Glucose reacts with hydroxylamine to form an oxime

C Pentaacetate of glucose does not react with hydroxylamine

D Glucose is oxidised by nitric acid to gluconic acid

## ANSWER:

## Correct option is C)

Pentaacetate of glucose does not react with hydroxylamine

The pentaacetate of glucose does not react with hydroxylamine indicating the absence of free -CHO group. This property of glucose can be explained only by its cyclic structure.