

Which form of glucose is more stable??

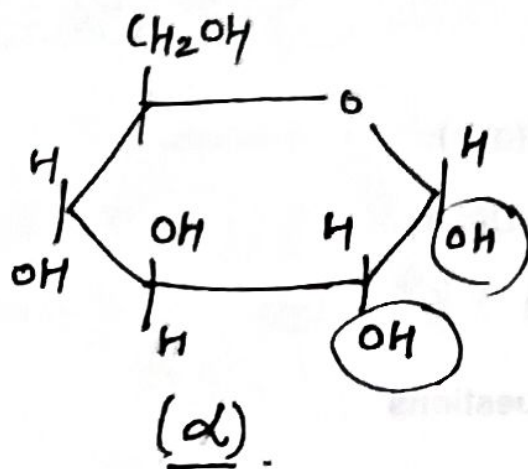
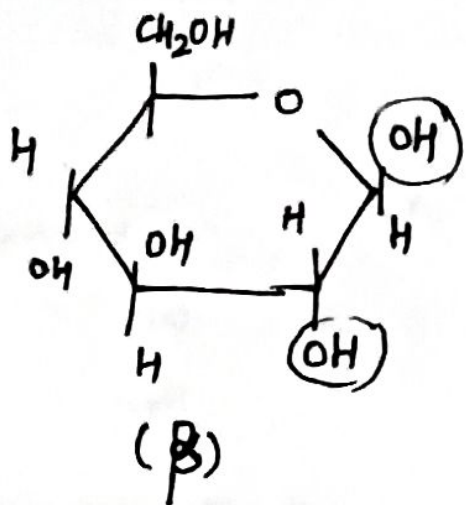
(a) α -glucose

(b) β glucose

(c) open chain

(d) All are equally stable

Sepⁿ.



The two circled OH groups in α group repel each other which leads to instability of molecule. Thus, β form is more stable than α . Similarly, cyclic form is more stable than open chain due to entropy factor.

So, β -D-glucose is most stable.