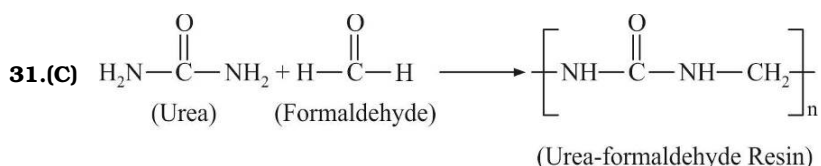
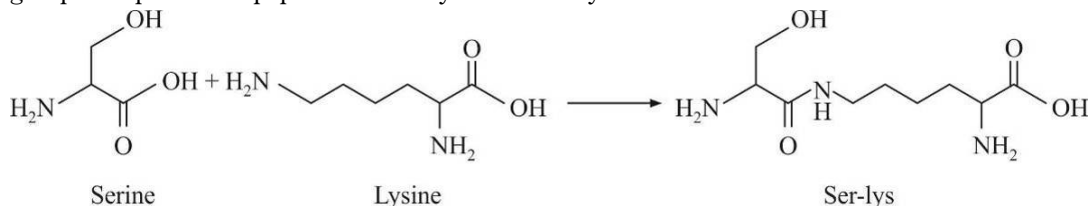


Daily Tutorial Sheet 3

JEE Main (Archive)



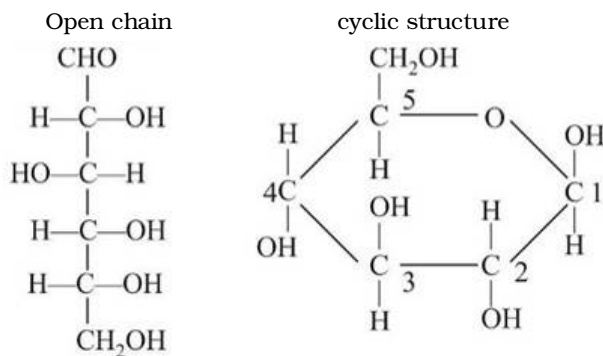
32.(D) Ceric ammonium nitrate test is for alcohols and carbylamines test is for amines. Both these functional groups are present in peptide formed by serine and lysine.



33.(D) Sucrose is formed due to bonding between.

α - Glucose from C_1 position and β - fructose from C_2 position.

34.(B) Glucose

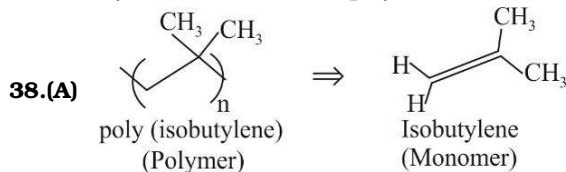


'4' \Rightarrow no. of stereocentre '5' \Rightarrow no. of stereocentre

35.(A) Refer NCERT

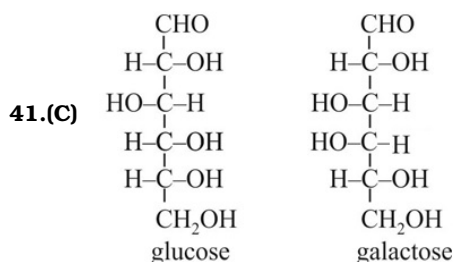
36.(B) Amylopectin is branched polymer of α - D - glucose having $\text{C}_1 - \text{C}_4$ and $\text{C}_2 - \text{C}_6$ linkage.

37.(D) Nylon is condensation polymer while all other are addition polymers.



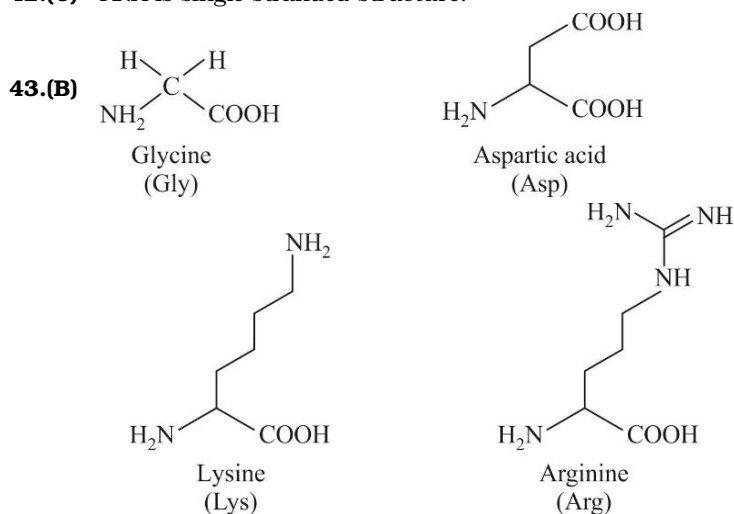
39.(A) Glycogen is NOT similar in structure to amylose which is a straight chain polymer. It shows similarity with amylopectin in its structure with higher number of branches. Glycogen is generally found in animal cells and also in some yeast and fungi. It only have α - linkages between the monomeric units.

40.(A) Bakelite is a thermosetting polymer.

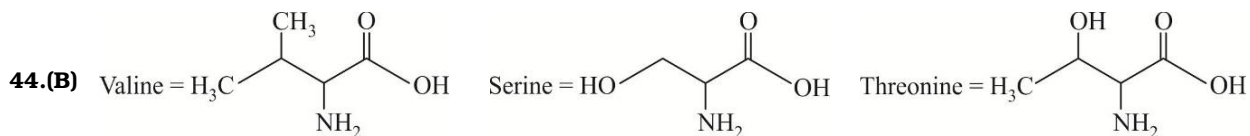


Configuration of galactose is different around C-4.

42.(C) RNA is single stranded structure.



Higher the pK_a , lower is the acidic strength $\text{Asp} < \text{Gly} < \text{Lys} < \text{Arg}$



45.(C) Ninhydrin test is for amines

Biuret test is for detecting the presence of peptide bonds

Barfoed test is for detecting presence of monosaccharides

Xanthoproteic test is for estimating amount of protein soluble in solution