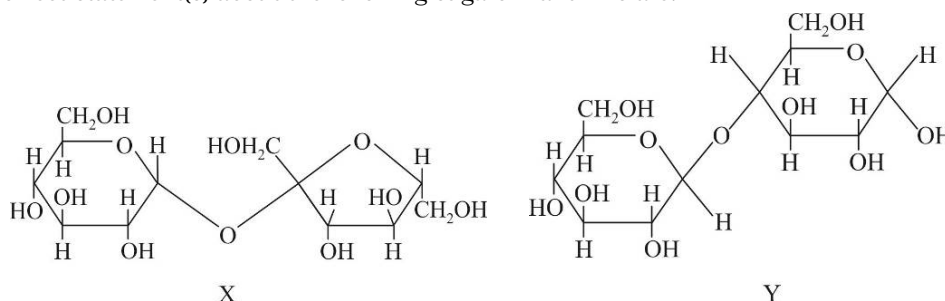


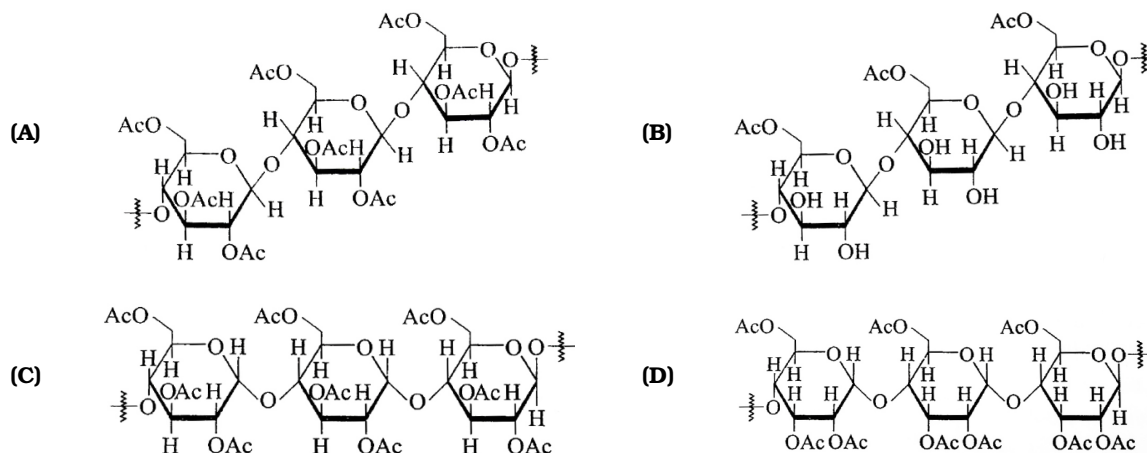
Date Planned : __ / __ / __	Daily Tutorial Sheet-1	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	JEE Main (Archive)	Exact Duration : _____

- RNA is different from DNA because RNA contains (2002)
 (A) Ribose sugar and thymine
 (B) Ribose sugar and uracil
 (C) Deoxyribose sugar and thymine
 (D) Deoxyribose sugar and uracil
- Complete hydrolysis of cellulose gives : (2003)
 (A) D-fructose (B) D-ribose
 (C) D-glucose (D) L-glucose
- Insulin production and its action in human body are responsible for the level of diabetes. This compound belongs to which of the following categories : (2004)
 (A) An enzyme (B) A hormone
 (C) A co-enzyme (D) An antibiotic
- The two forms of D-glucopyranose obtained from the solution of D-glucose are called : (2005)
 (A) Isomer (B) Anomer
 (C) Epimer (D) Enantiomer
- Polymer used in bullet proof glass is : (2008)
 (A) Lexane (B) PMMA
 (C) Nomex (D) Kevlar
- Bakelite is obtained by the polymerization of: (2008)
 (A) Phenol & Formaldehyde
 (B) Ethylene glycol and phthalic acid
 (C) Urea & Formaldehyde
 (D) None of these
- *7. The correct statement(s) about the following sugars X and Y is are: (2009)



- X is a reducing sugar and Y is a non-reducing sugar
- X is a non-reducing sugar and Y is a reducing sugar
- The glycosidic linkages in X and Y are α and β , respectively
- The glycosidic linkages in X and Y are β and $\alpha \sin^{-1} \theta$, respectively

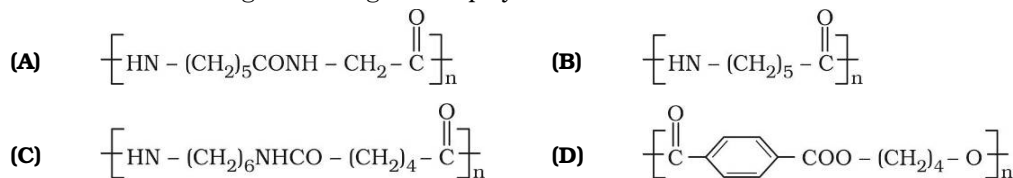
8. Cellulose upon acetylation with excess acetic anhydride/ H_2SO_4 (catalytic) gives cellulose triacetate whose structure is: (2009)



9. Among the following a natural polymer is : (2010)

(A) Cellulose (B) PVC (C) Teflon (D) Polyethylene

10. Which of the following is a biodegradable polymer ? (2011)



11. Synthesis of each molecule of glucose in photosynthesis involves : (2013)

(A) 18 molecules of ATP (B) 10 molecules of ATP
(C) 8 molecules of ATP (D) 6 molecules of ATP

12. Which one is classified as a condensation polymers: (2014)

(A) Dacron (B) Neoprene (C) Teflon (D) Acrylonitrile

13. Which one of the following bases is not present in DNA ? (2014)

(A) Quinoline (B) Adenine (C) Cytosine (D) Thymine

14. Match the polymers in **column-A** with their main uses in **column-B** and choose the correct answer : (2015)

Column-A		Column-B	
(A)	Polystyrene	(i)	Paints and lacquers
(B)	Glyptal	(ii)	Rain coats
(C)	Polyvinyl Chloride	(iii)	Manufacture of toys
(D)	Bakelite	(iv)	Computer discs

(A) (A)-(ii), (B)-(i), (C)-(iii), (D)-(iv) (B) (A)-(iii), (B)-(i), (C)-(ii), (D)-(iv)
(C) (A)-(ii), (B)-(iv), (C)-(iii), (D)-(i) (D) (A)-(iii), (B)-(iv), (C)-(ii), (D)-(i)

15. Which polymer is used in the manufacture of paints and lacquers? (2015)

(A) Bakelite (B) Glyptal (C) Polypropene (D) Polyvinyl chloride