

Nylon-6 is prepared by ring opening polymerisation of caprolactam. It is heated about 533 K in an inert atmospheric nitrogen about 4-5 hrs. Nylon-6 fibres are tough, possessing high tensile strength, as well as elasticity and lustre. They are wrinkle proof and highly resistant to abrasion and chemicals such as acids and alkalis.

3. Fructose and glucose can be distinguished by **[JEE Main 2019, 8 April Shift-II]**
- | | |
|---------------------|-----------------------|
| (a) Fehling's test | (b) Barfoed's test |
| (c) Benedict's test | (d) Seliwanoff's test |

Exp. (d)

Both fructose and glucose give following test positive.

- Fehling's test (red ppt. of Cu_2O is obtained).
- Barfoed's test (red ppt. of Cu_2O is obtained)
- Benedict's test (red ppt. of Cu_2O is obtained)

Fehling's solution : $\text{CuSO}_4 + \text{Na}_2\text{K}$ -tartrate (Rochelle salt)

Barfoed's reagent $(\text{CH}_3\text{COO})_2\text{Cu} + \text{CH}_3\text{COOH} + \text{H}_2\text{O}$
(7%) (1%) (92%)

Benedict's solution : $\text{CuSO}_4 + \text{Na}$ -citrate+ Na_2CO_3
 Seliwanoff's test is used to differentiate between ketose and aldose. The reagent is a solution of resorcinol in concentrated HCl. The reagent when heated along with a sugar will produce fural or hydroxy-methylfural, which further reacts to give red color. Ketose (fructose) reacts more quickly than aldose (glucose).

4. Which of the following statement is not true about sucrose? **[JEE Main 2019, 9 April Shift-II]**
- It is also named as invert sugar.
 - The glycosidic linkage is present between C_1 of α -glucose and C_2 of β -fructose
 - It is a non-reducing sugar
 - On hydrolysis, it produces glucose and fructose

Exp. (b)

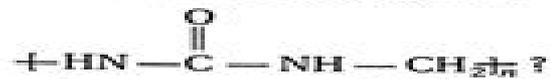
Statement-(b) is not true for sucrose. It is linked through a glycosidic linkage between C-1 of α -glucose and C-2 of β -fructose. Since, the reducing groups of glucose and fructose are involved in glycosidic bond formation, sucrose is a non-reducing sugar.



On hydrolysis with acids or enzyme, sucrose gives equimolar mixture of D-(+)-glucose and D-(-)-fructose.



5. Which of the following compounds is a constituent of the polymer

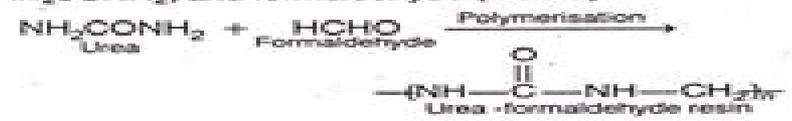


[JEE Main 2019, 9 April Shift II]

- N-methyl urea
- Methylamine
- Ammonia
- Formaldehyde

Exp. (d)

Monomer of $\left[\text{NH} - \overset{\text{O}}{\parallel}{\text{C}} - \text{NH} - \text{CH}_2 \right]_n$ is formaldehyde. The polymer is also known as urea-formaldehyde resin. It is made from urea (NH_2CONH_2) and formaldehyde (HCHO).



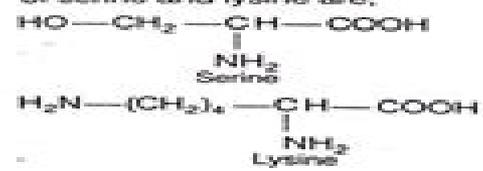
It is used for making unbreakable cups and laminated sheets.

6. The peptide that gives positive ceric ammonium nitrate and carbylamine tests is **[JEE Main 2019, 9 April Shift-II]**

- Lys-Asp
- Ser-Lys
- Gln-Asp
- Asp-Gln

Exp. (b)

The peptide that gives positive ceric ammonium nitrate and carbylamine tests is ser-lys. The structures of serine and lysine are,



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