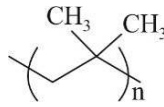
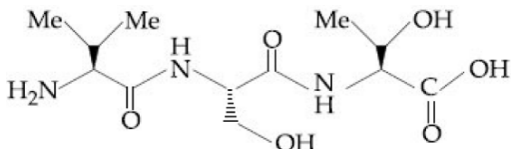


Date Planned : __ / __ / __	Daily Tutorial Sheet-3	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	JEE Main (Archive)	Exact Duration : _____

31. Which of the following compounds is a constituent of the polymer $\left[\text{HN}-\overset{\text{O}}{\parallel}{\text{C}}-\text{NH}-\text{CH}_2 \right]_n$?
 (A) Ammonia (B) N-Methyl urea (C) Formaldehyde (D) Methylamine (2019)
32. The peptide that gives positive ceric ammonium nitrate and carbylamines tests is: (2019)
 (A) Lys - Asp (B) Ser - Lys (C) Asp - Gln (D) Gln - Asp
33. Which of the following statements is not true about sucrose? (2019)
 (A) It is also named as invert sugar
 (B) On hydrolysis, it produces glucose and fructose
 (C) It is a non reducing sugar
 (D) The glycosidic linkage is present between C_1 of β -glucose and C_4 of β -fructose
34. Number of stereo centers present in linear and cyclic structures of glucose are respectively: (2019)
 (A) 5 & 5 (B) 4 & 5 (C) 5 & 4 (D) 4 & 4
35. The correct match between Item-I and Item-II is: (2019)
- | Column I | | Column II | |
|----------|------------------------|-----------|---|
| (a) | High density polythene | (I) | Peroxide catalyst |
| (b) | Polyacrylonitrile | (II) | Condensation at high temperature & Pressure |
| (c) | Novolac | (III) | Ziegler-Natta Catalyst |
| (d) | Nylon 6 | (IV) | Acid or base catalyst |
- (A) (a) $\rightarrow$ (III), (b) $\rightarrow$ (I), (c) $\rightarrow$ (IV), (d) $\rightarrow$ (II)
 (B) (a) $\rightarrow$ (III), (b) $\rightarrow$ (I), (c) $\rightarrow$ (II), (d) $\rightarrow$ (IV)
 (C) (a) $\rightarrow$ (IV), (b) $\rightarrow$ (II), (c) $\rightarrow$ (I), (d) $\rightarrow$ (III)
 (D) (a) $\rightarrow$ (II), (b) $\rightarrow$ (IV), (c) $\rightarrow$ (I), (d) $\rightarrow$ (III)
36. Amylopectin is composed of: (2019)
 (A) β -D- glucose, $\text{C}_1 - \text{C}_4$ and $\text{C}_1 - \text{C}_6$ linkages
 (B) α -D- glucose, $\text{C}_1 - \text{C}_4$ and $\text{C}_2 - \text{C}_6$ linkages
 (C) β -D- glucose, $\text{C}_1 - \text{C}_4$ and $\text{C}_2 - \text{C}_6$ linkages
 (D) α -D- glucose, $\text{C}_1 - \text{C}_4$ and $\text{C}_1 - \text{C}_6$ linkages
37. Which of the following is a condensation polymer? (2019)
 (A) Buna-S (B) Teflon
 (C) Neoprene (D) Nylon 6,6
38. The correct name of the following polymer is : (2019)
- (A) Polyisobutylene (B) Polytert-butylene
 (C) Polyisobutane (D) Polyisoprene



39. Which of the given statements is INCORRECT about glycogen ? (2019)
 (A) It is a straight chain polymer similar to amylose
 (B) It is present in animal cells
 (C) It is present in some yeast and fungi
 (D) Only α - linkages are present in the molecule
40. Which of the following is a thermosetting polymer? (2019)
 (A) Bakelite (B) PVC (C) Buna-N (D) Nylon 6
41. Glucose and Galactose are having identical configuration in all the positions except position. (2019)
 (A) C-3 (B) C-2 (C) C-4 (D) C-5
42. Which of the following statements is not true about RNA? (2019)
 (A) It controls the synthesis of protein
 (B) It is present in the nucleus of the cell
 (C) It has always double stranded α -helix structure
 (D) It usually does not replicate
43. The increasing order of pKa of the following amino acids in aqueous solution is : Gly Asp Lys Arg (2019)
 (A) Gly < Asp < Arg < Lys (B) Asp < Gly < Lys < Arg
 (C) Asp < Gly < Arg < Lys (D) Arg < Lys < Gly < Asp
44. The correct sequence of amino acids present in the tripeptide given below is : (2019)
- 
- (A) Leu - Ser - Thr (B) Val - Ser - Thr
 (C) Thr - Ser - Val (D) Thr - Ser - Leu
45. Which of the following tests cannot be used for identifying amino acids ? (2019)
 (A) Ninhydrin test (B) Biuret test
 (C) Barfoed test (D) Xanthoproteic test