

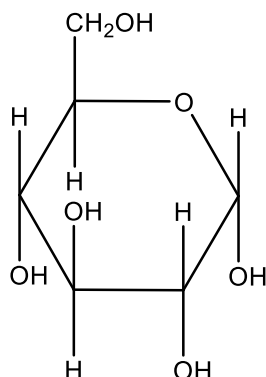
7 Beckmann rearrangement is a reaction, in which the group that is to the -OH of the oxime migrates 2

- a) stereospecific; anti b) stereospecific; syn
c) stereoselective; anti d) stereoselective; syn

8 is an epimer of D-glucose. 1

- a) L-glucose b) D- mannose
c) L-mannose d) D-fructose

9 The following structure represents



- a) α -D-glucofuranose b) β -D-glucofuranose 1
c) α -D-glucopyranose d) β -D-glucofuranose

10 D-Glucose on treatment with gives D-Gluconic acid 1

- a) conc. HNO_3 b) HIO_4
c) NaBH_4 d) $\text{Br}_2\text{-H}_2\text{O}$

11 The NMR spectrum of 2-chlorobutane will show number of signals 1

- a) 2 b) 3 c) 4 d) 5

12 A strong absorption band at 1700cm^{-1} indicates presence of group 1

- a) -OH b) - NH_2 c) $>\text{C}=\text{O}$ d) R-O-R

13 Magnetic anisotropy causes of aldehydic protons, hence they appear more than expected. 2

- a) deshielding ; upfield b) shielding; upfield
c) deshielding; downfield d) shielding : downfield

14 The sugar unit is bonded to position of the purine. 1

- a) 1 b) 5 c) 7 d) 9

15 The adenine in DNA is bonded to with a bond. 2

- a) thymine; double b) thymine; triple
c) cytosine; double d) cytosine; triple

16 Which of the following is not used as filler in polymer formation? 1

- a) sawdust b) gypsum c) papers d) Sodium chloride

17 Which of the following is not a biodegradable polymer? 1

- a) PHBV b) Polyaspartate c) Polyacrylic acid d) HDPE

18 Ethylene can be converted into ethylene oxide by using..... 1

- a) LiAlH_4 b) SeO_2 c) m-CPBA d) PtO

- 19** NBS converts cyclohexanone tobromo cyclohexanone 1
a) alpha b) beta c) gamma d) delta
- 20** Trans form of polyisoprene is called 1
a) Buna-S b) Gutta-percha c) Bakelite d) PVC