

Topic :- Biomolecules

- Dextrins $(C_6H_{10}O_5)_n$ are used in:
a) Making adhesive b) Confectionary c) Sizing paper d) All of these
- Aqueous solution of carbohydrate with 2 drops of alcoholic solution of α -naphthol and H_2SO_4 gives a ring at the junction. The colour of the ring is:
a) Yellow b) Green c) Violet d) Red
- The catalyst used in the hydrogenation of oils into fats is:
a) V_2O_5 b) Fe c) Ni d) Pt
- Which one is absent in protein?
a) C b) N c) S d) P
- The energy change produced by the combustion of foods is called the 'calorific value'. The best calorific value is given by:
a) Proteins b) Fats c) Carbohydrates d) Vitamins
- Which of the following is not a classification of proteins?
a) Enzymes b) Antibiotics c) Antigens d) Hormones
- Commercial detergents contain mainly:
a) $RONa$ b) $RCOONa$ c) $ROSO_3Na$ d) $ROCH_2CHORCH_2OR$
- Monosaccharides usually contain:
a) 3 to 8 carbon atoms b) 5 to 8 carbon atoms c) 2 to 10 carbon atoms d) 6 to 10 carbon atoms
- In aqueous solution glucose remains as
a) Only in open chain form b) Only in pyranose form
c) Only in furanose forms d) In all three forms in equilibrium
- Glucose forms many derivatives. The derivative which will help to prove the furanose structure is:
a) Osazone b) Benzoyl c) Acetyl d) Isopropylidene

11. An example of a sulphur containing amino acid is
a) Lysine b) Serine c) Cysteine d) Tyrosine
12. What happens when drying oils are exposed to light and moist air?
a) Polymerization b) Fermentation c) Hardening d) Isomerization
13. Which one is not a protein?
a) Actin b) Collagen c) Albumin d) Haematin
14. Which of the following hormones helps in the conversion of glucose into glycogen in the body?
a) Insulin b) Cortisone c) Thyroxin d) Oxytocin
15. Formation of amylose ring in glucose is an indication that ring in glucose is at:
a) C₁ and C₅ b) C₂ and C₅ c) C₃ and C₆ d) C₂ and C₄
16. Oils are:
a) Phospholipids b) Liquid fats c) Steroids d) All of these
17. Glucose contains in addition to aldehyde group
a) One secondary OH and four primary OH group
b) One primary OH and four secondary OH group
c) Two primary OH and three secondary OH group
d) Three primary OH and two secondary OH group
18. The total number of C-atoms in β-D fructofuranose are:
a) 6 b) 5 c) 4 d) 7
19. Bleeding gums are caused by deficiency of:
a) Thiamine b) Ascorbic acid c) Folic acid d) Vitamin E
20. Which is false
a) Glucose is a disaccharide b) Starch is a polysaccharide
c) Glucose and fructose are not anomers d) Invert sugar consists of glucose and fructose