

## BIO 103

Q1 : Most of glucose monomers in starch are joined by ??

- a- 1-2 linkage
- b- 1-4 linkage

Q2 : The most common monosaccharide is ?

- a- Glucose
- b- Ribose
- c- Fructose
- d- Maltose

Q3- The bonding two glucose units forms ?

- a- Sucrose
- b- Ribose
- c- Maltose
- d- Fructose

Q4- The name of glycosidic linkage that bind Glucose and Fructose is ?

- a- 1-4 of glycosidic linkage
- b- 1-2 of glycosidic linkage

Q5- The carbohydrate used by arthropods to build their exoskeletons is ?

- a- Chitin
- b- Strach
- c- Glucose
- d- Pharmacy

Q6- A molecule is a Ketoses and pentoses ?

- a- Ribose
- b- Ribulose

- c- Glyseraldehyde
- d- Galactose

Q7- all of the following polymer except ?

- a- proteins
- b- Lipids
- c- Nucleic acids
- d- Glucose

Q8- Three Fatty acid molecules each joins to glycerol by ?

- a- glycosidic linkage
- b- ester linkage
- c- peptide bond
- d- chaperonins

Q8- What is the different between saturated and unsaturated fat ?

- a- saturated is solid and unsaturated is liquid
- b- saturated has double bond
- c- unsaturated has double bond causes bending
- d- A+C

Q9- What characterized by a carbon skeleton for steroids/ cholesterol ?

- a- trans fats
- b- three fatty acid + glycerol
- c- four fused rings
- d- triacylglycerol

Q10- polymers of amino acid is ?

- a- polypeptides
- b- proteins
- c- Glucose
- d- polynucleotides

Q11- Polymer of Amino Acid linked by ?

- a- ester linkage
- b- peptide bond
- c- Nucleotides
- d- Purines

Q12- All of the following is weak bond except ?

- a- Hydrogen bond
- b- Van der Waals
- c- Hydrophobic
- d- Disulfide bridge

Q13- All of the following is fibrous protein except ?

- a- collagen
- b- Keratin
- c- Hemoglobin
- d- actin

Q14- All of the following is used to determine 3-d structure for proteins except ?

- a- X-ray crystallography
- b- NMR
- c- bioinformatics
- d- centrifugation

Q15- Nucleotides composed of ?

- a- nitrogen base
- b- pentose sugar (five carbon sugar)
- c- all of the above
- d- Phosphate group

Q16- one of the following found just in DNA ?

- a- U
- b- A

c- T

d- G

Q17- These cells are Eukaryotic cells except ?

a- bacteria

b- protists

c- A+D

d- Archaea

Q18- the Function of the ribosomes ?

a- make proteins

b- transport

c- phagocytosis

d- storage

Q19- All of the following is a double membrane except ?

a- nucleus

b- mitochondria

c- peroxisome

d- vacuoles

20- All of the following are part of the endomembrane system except ?

a- Nuclear envelope

b- plasma membrane

c- Golgi body

d- Mitochondria

21- The function of smooth ER ?

a- Synthesis lipids

b- metabolisms of carbohydrates

c- detoxification of drugs

d- all of the above

22- One of the following found in mature plants ?

a- Food vacuoles

b- contractile vacuoles

c- Central vacuoles

d- ATP

23-The function of mitochondria ?

a- Cellular respiration

b- generate ATP

c- Autophagy

d- A+b

24- One of the following is a not part of the endomembrane system ?

a- Vacuoles

b-ER

c- Nuclear envelop

d- peroxisome

25- The main of proteins facilitated water only ??

a- integral

b- aquaporin

c-peripheral

d- intracellular joining