Q1- Choose the correct answer below:

1. What is biology?
A) The study of chemistry
B) The scientific study of life
C) The study of Earth's atmosphere
D) The study of machines

2. Which of the following is NOT a property of life?
A) Order
B) Growth and development
C) Energy processing
D) Inactivity

3. The ability of organisms to control their internal environment is called:
A) Evolutionary adaptation
B) Regulation
C) Reproduction
D) Energy processing

4. The basic unit of life is:
A) Tissue
B) Organelle
C) Cell
D) Organ

5. Which type of cells lack a nucleus?
A) Plant cells
B) Prokaryotic cells
C) Eukaryotic cells
D) Fungal cells

6. In an ecosystem, producers are mainly:
A) Animals
B) Decomposers
C) Plants
D) Bacteria

7. DNA is important because it:
A) Produces energy directly
B) Controls cell activities
C) Is made only of proteins
D) Exists only in eukaryotic cells

8. Taxonomy is concerned with:
A) Recycling nutrients
B) Naming and classifying species
C) Energy flow in ecosystems
D) DNA sequencing

9. Which of the following domains includes multicellular organisms such as animals and plants?
A) Bacteria
B) Archaea
C) Eukarya
D) Protists

10. Which statement about a scientific theory is TRUE?
A) It is narrower than a hypothesis
B) It is unsupported by evidence
C) It is broader in scope than a hypothesis
D) It is never tested

11. Which of the following is considered as a type of disaccharides?

A) Glucose
B) Fructose
C) Lactose
B) Galactose

12.What is building blocks of carbohydrates?
A) Amino acid
B) Monosaccharides
C) Nucleotides
D) Fatty acids

13. Which of the following serves as a primary energy source in animals?
A) Starch
B) Glycogen
C) Protein
D) Cellulose

14. A fat or oil molecule that contains one glycerol linked to three fatty acids is often called:

A) phospholipid
B) Monoglyceride
C) Triglycerides
D) steroids

15. At room temperature, saturated fats are usually:

A) liquid
B) Gaseous
C) Solid
D- mixed with water

16. Major components of ALL cell membranes

A) Amino acids
B) Phospholipid
C) Carbohydrate
D) Cellulose

17. Which of the following is a type of steroid:

A) Glycine
B) Beta Alanine
C) Estrogen
D- Chitin

18. What are the building blocks of proteins?

A) Fatty acids
B) Amino acids
C) Carbon
D) Water

19. Speed up the chemical reactions

A) Enzymes
B) Glucose
C) Hemoglobin
D) Lipid

20. Which of the following nitrogen bases found in RNA only

A) Thymine
B) Cytosine
C) Uracil
D) Guanine

Q2- Answer the following questions:

1- Mention the types of carbohydrate:

A-……..……..

B- ……..

C- ……..

2- Write the building blocks of the following:

A- Protein:…….

B- Carbohydrate:……...

C- Nucleic acids:……...

3- Mention the main types of organic compounds:

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4- Write down the 2 types of fats and compare their state at room temperature

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All the best