



Question One:

(10 marks)

Chose the appropriate answer from the listed choice of each statement:

- 1- The electron transport chain occurs in the:
 - a- Cytosol
 - b- Mitochondrial matrix
 - c- Cytoplasm
 - d- The inner membrane of the mitochondria

- 2- The chromosomes of a eukaryotic cell are located in the:
 - a- Nucleus
 - b- Mitochondria
 - c- Ribosome
 - d- Endoplasm

- 3- The origin of peroxysomes is:
 - a- Ribosomes
 - b- Mitochondria
 - c- Centrioles
 - d- Smooth endoplasmic reticulum

- 4- Pinocytotic vesicles are used for:
 - a- Cellular drinking.
 - b- Cellular respiration
 - c- Cellular locomotion
 - d- Cellular eating

- 5- Nuclear envelope composed of:
 - e- One layer
 - f- Two layers
 - g- Three layers
 - h- Four layers

- 6- The monomer of the nucleic acid is:
 - a- Glucose
 - b- Fatty acid
 - c- Nucleotide
 - d- Amino acid

- 7- Movement of molecules across a concentration gradient (high to low)
 - a- Osmosis
 - b- Diffusion
 - c- Active transport
 - d- Passive transport



- 8- Number of Golgi apparatus in the cell is:
- a- Two
 - b- One
 - c- Three
 - d- Thousands
- 9- The science which deals with the study of tissues:
- a- Cytology
 - b- Embryology
 - c- Histology
 - d- Morphology
- 10- Substances commonly known as the tissue – builders are:
- a- Lipids
 - b- Carbohydrates
 - c- Nucleic acids
 - d- Proteins

Question Two:

(5 marks)

Write the scientific term for each of the following sentences:

- 1- _____ play important role in elongation of cell life
- 2- _____ means "splitting of sugar".
- 3- _____ the material of which all living bodies are built-up.
- 4- _____ the process of oxidizing food to release energy
- 5- _____ a small and dense region in the interior of the cell nucleus.

Question Three:

(10 marks)

Put a mark (✓) or (×) in front of the following sentences:

- 1- () The tissues are grouped to form the cell.
- 2- () Binary fission is kind of sexual reproduction.
- 3- () Fungi are examples for prokaryotic cells
- 4- () Amino acid is the monomer of the nucleic acids.
- 5- () Filaments are responsible for muscular contraction.
- 6- () Embryology deals with the function of body organs.
- 7- () Anabolism is the building up of new living materials.
- 8- () Mobile ribosomes are free in cytoplasm.
- 9- () Chloroplasts are found only in the animal cells.
- 10- () Carbohydrates are 'commonly known as the tissue –builders.



Question Four: (6 marks)

Match the description below with the organelle or cell component on the right:

1.	Play important role in protein synthesis		lysosomes
2.	Contain digestive enzymes		Genetics
3.	This is the material of which all living beings are built-up		Chromatin
4.	Maintain the shape of nucleus.		Centrioles
5.	Store the genetic information of the individual.		Nuclear envelope
6.	The study of transmission of hereditary characters		Protoplasm
			Ribosomes

Question Five: (6 marks)

A) Define:

Growth:

Physiology:

The cell:

B) Describe the function of:

Centriole: _____



Golgi apparatus :

Nuclear pores:

Question Six:

(3 marks)

Talk briefly about:

a) Active Transport

b) Glycolysis

End of Questions
Good Luck