

Department: General Science

College of Basic Education

Salahaddin University–Erbil



Final Exams
1st attempt
2023- 2024

Stage:2nd

Time: 2hrs.

Q1/circle the correct answer:-(10 M)

1- Cell Biology is a branch of -----.

- a.cytology b.Genetics c.Biology d.Botany

2-The cytoplasm surrounded by -----

- a.organ b.plasma membrane c.cell membrane d.both b+c

3-recognition of antigens, via receptors it is on of the -----function.

- a.nuclear envelope b.cell membrane c.cytosol d.cytoplsm

4-The passive movement of molecules from a higher to a lower concentration called -----

- a.active transport b.osmosis c.diffusion d.non of them

5-----anything in environment that can cause a change in DNA.

- a.Mutagen b.chrosomal mutation c.mutation repair d.non of them

6-Detoxfy drugs in liver cells it is important function of -----

- a.SER B.RER C.Golgi apparatus d.lysosome

7-Mitochondria create 90% of the -----needed to life and support organ function.

- a.glocose b.energy c.enzyme d.protein

8-The chromosome consist of multiple long linear DNA molecules in complex with a large variety of proteins, such as -----

- a.histone b.enzyme c.mRNA D.mtDNA

9----- (1655) observes cells in cork tree.

- a.Hooke b.Kolliker c.Leewenhoek d.Schleiden

10-The basic unit of life -----

- a.cell b.nucleus c.ribosome d.cytosol

Q2/ A. answer the following questions: (12 M)

1-Explain the mitochondrial structure

2-function of lysosome.

B/ show by the diagram the following organelles : (10 M)

a.cell membrane

b.producing energy

c.structure of nucleus

Q3/A. Enumerate the following : (4 M)

1-types Endoplasmic reticulum

2-types of mutation

B/define the following : (4 M)

1-cell wall

2-Hypertonic

Q4/ A.write by table the differences between plant and animal cells. (10 M)

B.Mention about the important function of plasma lemma(Endocytosis) (10 M)

GOOD LUCK

Dr. SuhairW.A

