BIOLOGY HOLIDAYS HOMEWORK 2020-2021

CLASS 9

PART A

Q1: What is COVID -19 and what is its causative agent?

Q2: What does COVID -19 stands for?

Q3: What are the symptoms of COVID -19?

Q4: Are antibiotics effective in preventing or treating COVID -19? Give reason for your answer.

Q5: Why vaccine for COVID -19 is difficult to prepare and taking so long?

Q6: What is the difference between self isolation, self quarantine and social distancing?

Q7: How can you protect yourself from the infection of COVID-19?

Q8: What precautions are you taking these days before consuming fruits and vegetables?

Q9: What precautions are you taking while buying groceries and when receiving a delivery at home these days?

Q10: Can you get infected by COVID-19 through the air?

Q11: How long does the virus survive on surfaces?

Q12: Will taking extra vitamins supplements help against COVID-19 infection?

PART B

Q1: Which organelle would you associate with elimination of old and worn out cells? Why?

Q2: Describe an activity to demonstrate endosmosis and exosmosis. Draw a diagram in support of the activity.

Q3: a. Draw a plant cell and name seven important organelles found in it.

b. Name one organelle that can make some of its own protein in a plant cell and also mention one function of such an organelle.

Q4:a) Where are chromosomes located?

b) What are they composed of?

c)What is chromatin material and how does it change just before the cell divides?

d) What is their chemical composition?

e)How many pairs of chromosomes are present in humans?

Q6: Who discovered cell and how? From where do the new cells come?

Q7: Draw a neat diagram of an animal cell and label the following organelles:

- a. Plasma membrane
- b. Golgi apparatus
- c. Centriole
- d. Rough endoplasmic reticulum

Q8: Why are mitochondria called Power house of the cell? Give three similarities and one difference between mitochondria and plastid.

Q10: Put a drop of blood in three type of liquids:

- a. Pure water
- b. Salt solution
- c. Water containing 5M glucose and 0.9% Nacl

What will happen to the blood drop and why? Explain your answer

Q11: Draw a diagram of prokaryotic cell and label on it the following: Nucleoid, Ribosomes, Plasma membrane.

Q12: What is the difference in the type of cell division that takes place in sex cells and in the skin?

Q13. What is membrane biogenesis? How does it takes place?