



الاجابات نهاية الصفحة

Answer the following questions

Question 1

A Complete the following statements:

1. The product of the velocity of moving body x the time equal.....
2. The galaxy that solar system belongs to is called.....
3. The image formed by concave lens is always.....erect and diminished.
4. The nucleolus and nuclear membrane disappear at the end off..... of mitosis.
5. The change of an object position as time passes according to the position of another fixed object is called....

B What is meant by each of the following ... ?

1. Fertilization.
2. Pole of the mirror.
3. Average speed.

C Within 2.5 second, the speed of a car increases from 20 m/s to 25 m/s, while a bike moves from rest and its speed reaches 10 m/s in the same time. Which moves at a greater acceleration?

Question 2

A Choose the correct answer :

1. The reproduction which considered as a source of genetic variation is
 - a. vegetative
 - b. budding
 - c. sexual reproduction.
 - d. regeneration

2. Which of the following is considered as scalar physical quantities?

- a. Force
- b. Mass.
- c. Acceleration.
- d. Velocity.

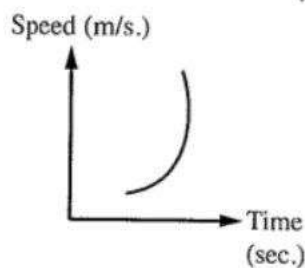
3. The scientist who established the nebular theory is

- a. Chamberlain..
- b. Moulton.
- c. Fred Hoyle.
- d. Laplace.

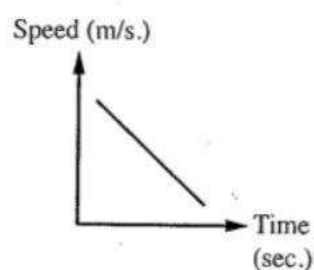
4. Crossing over phenomenon happens in the end of first

- a. prophase
- b. metaphase
- c. anaphase
- d. telophase

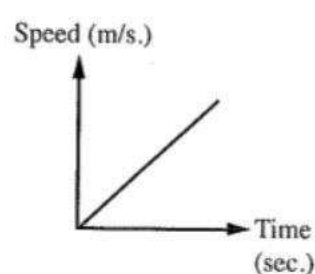
5. Which of the following graphs represents the movement of an object at a constant speed?....



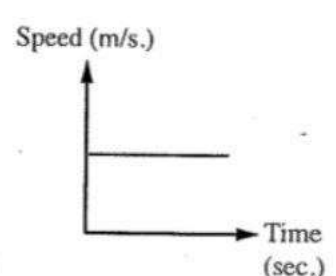
a.



b.



c.



d.

B Give reasons for:

1. Meiotic division is called by reduction division.
2. Pilots take in consideration the velocity of the wind.
3. The image formed by a plane mirror cannot be received on the screen.

C An object is placed at a distance of 30 cm from a concave mirror with a radius of curvature 40 cm.

1. Calculate the focal length of the mirror.
2. Show by drawing the path of rays that show the formed image in this case.

Question 3

A Correct the underlined words:

1. Velocity is the quantity that we can identify it accurately by knowing its magnitude only.
2. Spores are formed in bread mould fungus inside special organs called buds.
3. The two gases which are produced galaxies, stars and universe over millions of years are oxygen and nitrogen.
4. If an object is put in front of concave mirror at focus, the formed image is real, inverted and equal to the object.
5. When a moving object covers unequal distances at equal periods of time so, it moves with non-uniform acceleration.

B What would happen when ... ?

1. A light ray passes through the optical center of the lens.
2. Putting a yeast fungus in a warm sugary solution.
3. The initial speed of the moving body is greater than the final speed.

C Compare between each of the following:

1. Short-sightedness and long-sightedness (according to the position of the formed image).

2. Asexual reproduction and sexual reproduction (according to the number of parents).

Question 4

Write the scientific term:

1. The distance covered in a certain direction.
2. The nucleic acid that carries the genetic traits of the living organisms.
3. The speed of the moving object relatively to a constant or moving observer.
4. An equipment was launched to the space, allows astronomers an opportunity to study the evolution of the universe.
5. The rebounding of the light to the same side when it strikes a reflecting surface.

B Mention the importance of each of the following:

1. Speedometres in the car.
2. Nano-molecules of gold.
3. A convex mirror which is put at the left side of the driver of the car.

C Two cells are divided, one of them in the plant stem and the other in the plant ovary, if you know the number of chromosomes in each of them is 6 pairs of chromosomes, mention :

1. The kind of cell division in each cell.
2. The number of chromosomes in each resulted cell.

A Complete the following statements:

1. The product of the velocity of moving body x the time equal... **displacement..**
2. The galaxy that solar system belongs to is called... **Milky way Galaxy..**
3. The image formed by concave lens is always..... **virtual**.....erect and diminished.
4. The nucleolus and nuclear membrane disappear at the end off... **prophase**..... of mitosis.
5. The change of an object position as time passes according to the position of another fixed object is called... **motion**.

B What is meant by each of the following ... ?

1. Fertilization. **It is the combination of a male gamete a female gamete to form a zygote.**
2. Pole of the mirror. **It is the point that lies in the middle of the reflecting surface of the mirror**
3. Average speed. **It is the total distance covered by the moving object divided by the total time taken to cover this distance.**

C Within 2.5 second, the speed of a car increases from 20 m/s to 25 m/s, while a bike moves from rest and its speed reaches 10 m/s in the same time. Which moves at a greater acceleration?

The car! $a = \frac{V_2 - V_1}{T} = \frac{25 - 20}{2.5} = 2 \text{ m/sec}^2$.

The bike $a = \frac{V_2 - V_1}{T} = \frac{10 - 0}{2.5} = 4 \text{ m/sec}.$

→ So the bike moves at a greater acceleration Than the car

Question 2

A Choose the correct answer :

1. The reproduction which considered as a source of genetic variation is
 - a. vegetative
 - b. budding

- c. sexual reproduction.
- d. regeneration

2. Which of the following is considered as scalar physical quantities?

- a. Force
- b. Mass.
- c. Acceleration.
- d. Velocity.

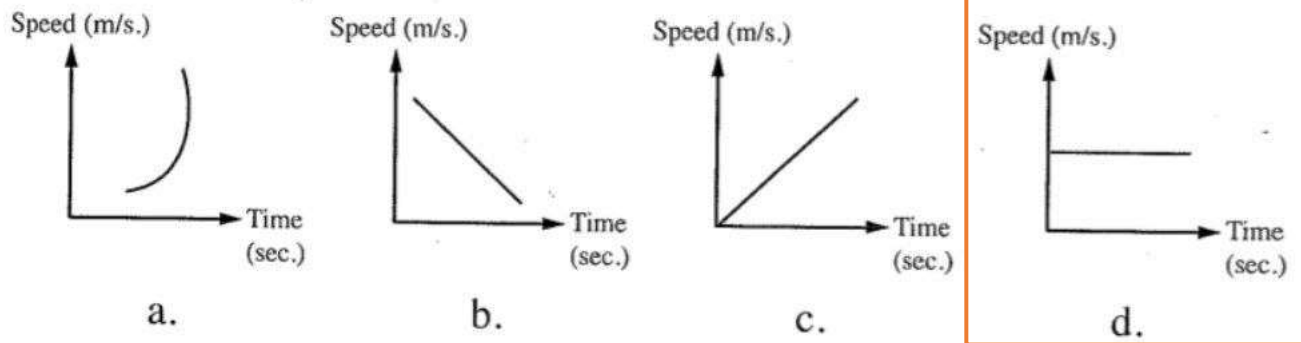
3. The scientist who established the nebular theory is

- a. Chamberlain..
- b. Moulton.
- c. Fred Hoyle.
- d. Laplace.

4. Crossing over phenomenon happens in the end of first

- a. prophase
- b. metaphase
- c. anaphase
- d. telophase

5. Which of the following graphs represents the movement of an object at a constant speed?....d



B Give reasons for:

1. Meiotic division is called by reduction division. **Because the produced cells (gametes) contain half the number of chromosomes of the reproductive cell**
2. Pilots take in consideration the velocity of the wind. - **Because the time and the amount of Consumed Fuel depend on the direction of the wind.**

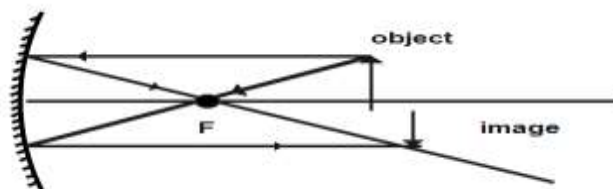
3. The image formed by a plane mirror cannot be received on the screen.
Because it is a virtual image

C An object is placed at a distance of 30 cm from a concave mirror with a radius of curvature 40 cm.

1. Calculate the focal length of the mirror.

$$\text{focal length} = \frac{r}{2} = \frac{40}{2} = 20 \text{ cm}$$

2. Show by drawing the path of rays that show the formed image in this case.



Question 3

A Correct the underlined words:

1. Velocity is the quantity that we can identify it accurately by knowing its **magnitude and direction.**
2. Spores are formed in bread mould fungus inside special organs called **sporangium.**
3. The two gases which are produced galaxies, stars and universe over millions of years are **hydrogen and helium.**
4. If an object is put in front of concave mirror at **The centre of the curvature**, the formed image is real, inverted and equal to the object.
5. When a moving object covers unequal distances at equal periods of time so, it moves with **non-uniform speed.**

B What would happen when ... ?

1. A light ray passes through the optical center of the lens. **Passes through the lens without refraction.**
2. Putting a yeast fungus in a warm sugary solution. **A bud emerges from the cell, which anew individual .**
3. The initial speed of the moving body is greater than the final speed. **The speed of the moving body decrease by time, and movement is decelerating motion**

C Compare between each of the following:

1. Short-sightedness and long-sightedness (according to the position of the formed image).
1- short sightedness:- in front of retina .
-Long Sightedness: behind the retina.
2. Asexual reproduction and sexual reproduction (according to the number of parents).
A sexual reproduction: by only 1 Parent.
- sexual reproduction: by 2 individuals (male and female)

Question 4

Write the scientific term:

1. The distance covered in a certain direction. **Displacement**
2. The nucleic acid that carries the genetic traits of the living organisms. **DNA**
3. The speed of the moving object relatively to a constant or moving observer. **Relative Speed**
4. An equipment was launched to the space, allows astronomers an opportunity to study the evolution of the universe. **The Hubble telescope**
5. The rebounding of the light to the same side when it strikes a reflecting surface. **Light reflection**

B Mention the importance of each of the following:

1. Speedometres in the car. **Identifying the speed of the car directly**
2. Nano-molecules of gold. **Absorb the light energy Convert it to heat energy, that kills cancer cells**
3. A convex mirror which is put at the left side of the driver of the car.
It forms and erect and diminished image for the way behind the car

C Two cells are divided, one of them in the plant stem and the other in the plant ovary, if you know the number of chromosomes in each of them is 6 pairs of chromosomes, mention :

1. The kind of cell division in each cell.
In the plant stem cell: mitosis.
→ In the ovary cell : meiosis
2. The number of chromosomes in each resulted cell.
The resulted cell from mitosis 6 Pairs .
-resulted cell from meiosis : 3 Pairs