

الاجابات نهاية الصفحة

Answer the following questions:

Question 1

A Complete the following sentences:

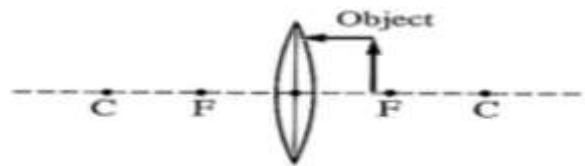
1. The movement path in one direction may be..... , or a combination of both.
2. Force is considered..... physical quantity, while mass is...physical quantity.
3. The cell..... contains the genetic material of the living organism which consists of...a number of

B What are the results of each of the following:

1. Less convexity of eye lens surfaces.
2. Rupturing of the sporangium of bread mould fungus.

C In the opposite figure:

1. Complete the path of the rays to form an image for the object.
2. Mention the properties of the formed image.



Question 2

A Write the scientific term for each of the following statements:

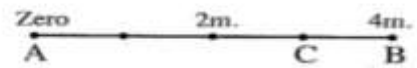
1. The value of a moving object's speed relatively to a constant or a moving observer.
2. The covered distance at a certain direction.
3. The straight line that passes by center of curvature of the mirror and its pole.

4. A glowing gaseous sphere formed the planets of the solar system.
5. The total distance covered by a moving object divided by the total time taken to cover this distance.

B In the opposite figure:

A person moves from point (A) to point (B), then changes his direction to point (C) through 10 seconds, Calculate:

1. The total distance covered by the person.
2. The displacement done by the person.
3. The velocity.



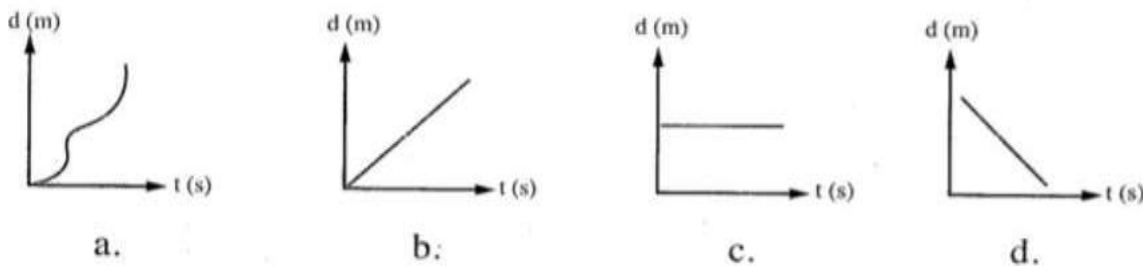
C Compare between :

Crossing star theory and the modern theory according to assumption of each about the origin of the solar system.

Question 3

A Choose the correct answer :

1. The graph..... represents the movement of a body at a constant speed.



2. From the properties of the image formed by a convex mirror is.....
 - a. virtual.
 - b. real.
 - c. upright.
 - d. (a) and (c) together.

3. Chromosomes of reproductive cells are doubled in the interphase before..... division.

- a. first meiosis.
- b. second meiosis
- c. mitotic
- d. no correct answer

4. If a person stands at a distance 2 m from a plane mirror, the distance between the person and his image is

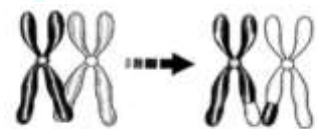
- a. 1 m.
- b. 2 m.
- c. 3 m.
- d. 4 m.

5. The value of change of an object speed in one second is called.

- a. velocity.
- b. displacement.
- c. acceleration.
- d. speed.

B The opposite figure represents the crossing over phenomenon, Answer the following:

- 1. What happens in this phenomenon?
- 2. What is the name of the phase in which this phenomenon occurs?
- 3. Draw the following phase to the phase in which this phenomenon occurs.



C Mention only one use for each of the following:

- 1. The contact lenses.
- 2. The solar telescope.

Question 4

A Rewrite the following statements after correcting the underlined words:

1. Radius of mirror curvature = 1/2 x the focal length.
2. The chromosome consists of two chromatids connected together at the nucleus.
3. The speed of a car can be identified directly by using the compass.
4. In the universe, groups of planets are gathered to form the galaxies.

B Give reasons for :

1. The lens had two centers of curvature (C_1 , and C_2).
2. The moving body with acceleration cannot move with regular speed.
3. Binary fission is considered a mitotic division.

C Choose from column (B) what suits column (A) :

(A)	(B)
1. Reproductive cells 2. Plant cells 3. Somatic cells	a. In which mitotic division occurs. b. Produce gametes. c. In which the spindle fibers is formed from the cytoplasm. d. Contain a haploid number of chromosomes.

Question 1

A Complete the following sentences:

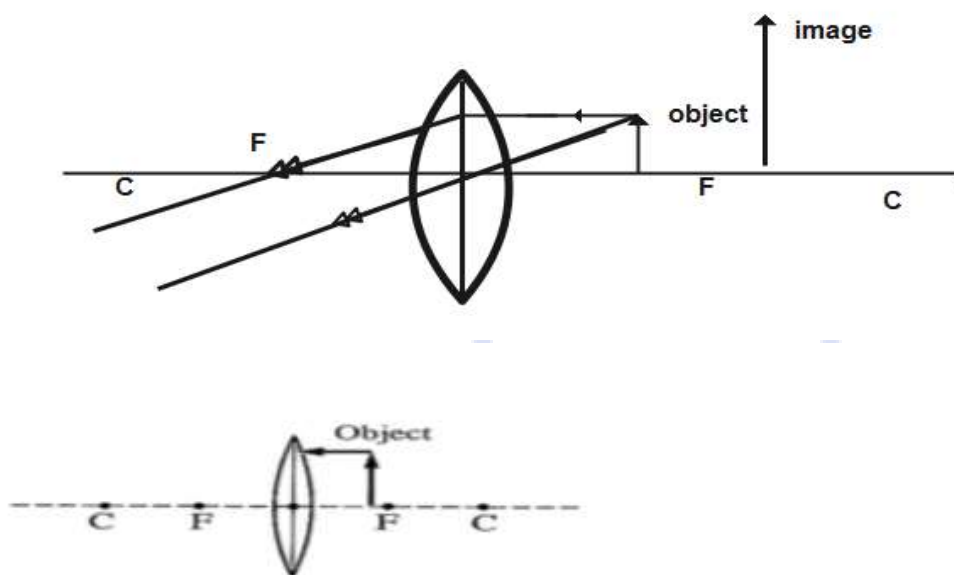
1. The movement path in one direction may be... **straight curved** ... , or a combination of both.
2. Force is considered..... **vector**..... physical quantity, while mass is **scalar** ...physical quantity.
3. The cell..... **nucleus**..... contains the genetic material of the living organism which consists of... **chromosome** a number of

B What are the results of each of the following:

1. Less convexity of eye lens surfaces. **Formation of image of the near objects. behind the retina causing long sightedness**
2. Rupturing of the sporangium of bread mould fungus. **A large number of spores are released when spores Find a suitable environment they start to grow to give out a new organism:**

C In the opposite figure:

1. Complete the path of the rays to form an image for the object.



2. Mention the properties of the formed image.

The prop's of formed image is: virtual, upright and magnified.

Question 2

A Write the scientific term for each of the following statements:

1. The value of a moving object's speed relatively to a constant or a moving observer. **Relative speed**
2. The covered distance at a certain direction. **Displacement**
3. The straight line that passes by center of curvature of the mirror and its pole. **The principal axis**
4. A glowing gaseous sphere formed the planets of the solar system.
Nebula
5. The total distance covered by a moving object divided by the total time taken to cover this distance. **Average speed**

B In the opposite figure:

A person moves from point (A) to point (B), then changes his direction to point (C) through 10 seconds, Calculate:

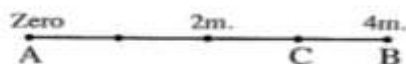
1. The total distance covered by the person.

The total distance $= \overline{AB} + \overline{BC} = 4+1 = 5 \text{ m}$

2. The displacement done by the person.

Displacement $= \overline{AB} - \overline{BC} = 4-1 = 3 \text{ m}$ in the direction of east.

3. The velocity.



The velocity $\frac{\text{displacement}}{\text{time}} = \frac{3}{10} = ,3 \text{ m/sec}$.in the direction of east

C Compare between :

Crossing star theory and the modern theory according to assumption of each about the origin of the solar system.

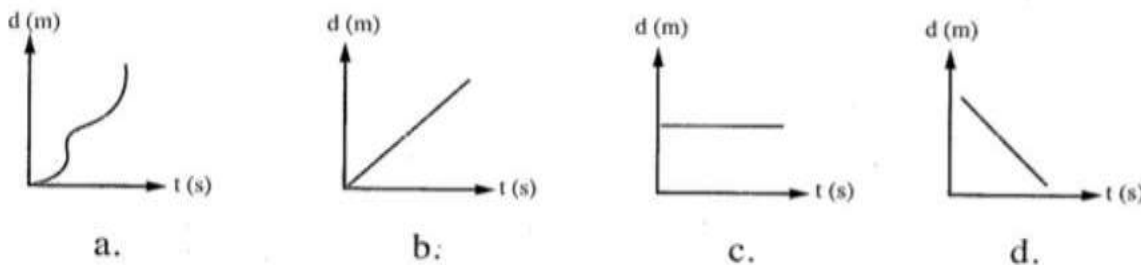
crossing star theory: the origin of solar system is the sun.

Modern theory. The origin of the solar system another star revolves around the sun

Question 3

A Choose the correct answer :

1. The graph.....**b**..... represents the movement of a body at a constant speed.



2. From the properties of the image formed by a convex mirror is.....

- a. virtual.
- b. real.
- c. upright.
- d. **(a) and (c) together.**

3. Chromosomes of reproductive cells are doubled in the interphase before..... division.

- a. **first meiosis.**
- b. second meiosis
- c. mitotic
- d. no correct answer

4. If a person stands at a distance 2 m from a plane mirror, the distance between the person and his image is

- a. 1 m.
- b. 2 m.
- c. 3 m.

d. **4 m.**

5. The value of change of an object speed in one second is called.

a. velocity.

b. displacement.

c. **acceleration.**

d. speed.

B The opposite figure represents the crossing over phenomenon, Answer the following:

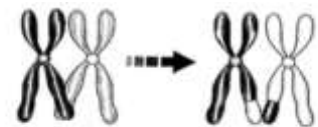
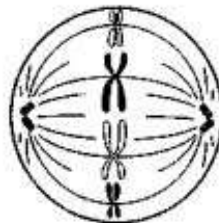
1. What happens in this phenomenon?

- some parts of the 2 inner chromatid of each tetrad are exchanged to produce new genetic arrangement

3. What is the name of the phase in which this phenomenon occurs?

prophase 1 Cas its end.

3. Draw the following phase to the phase in which this phenomenon occurs.



C Mention only one use for each of the following:

1. The contact lenses. **It's used instead of glasses for correcting the vision defects**

2. The solar telescope. **It's used to study the sun.**

Question 4

A Rewrite the following statements after correcting the underlined words:

1. Radius of mirror curvature = **2** x the focal length.
2. The chromosome consists of two chromatids connected together at the **centromere**.
3. The speed of a car can be identified directly by using the **Speedometer**
4. In the universe, groups of **Stars** are gathered to form the galaxies.

B Give reasons for :

1. The lens had two centers of curvature (C_1 , and C_2). **Because the lens had 2 spherical surface, each surface had a centre.**
2. The moving body with acceleration cannot move with regular speed. **Because its speed changes by Passing time**
3. Binary fission is considered a mitotic division. **Because 2 identical cells are produced identical to the parent cell- each is identical to the parent cell**

C Choose from column (B) what suits column () :

(A)	(B)
4. Reproductive cells (b)	e. In which mitotic division occurs.
5. Plant cells (C)	f. Produce gametes.
6. Somatic cells (a)	g. In which the spindle fibers is formed from the cytoplasm.
	h. Contain a haploid number of chromosomes.