

الاجابات نهاية الصفحة**A Complete the following sentences:**

1. Acceleration is considered one of one of physical quantities, while time is considered one of physical quantities.
2. The solar system is located in one the Arms of the Milky way on the edge of the galaxy.
3. Somatic cells are divided by , while reproductive cells are divided by

B What is meant by the following:

1. The optical centre of the lens.
2. Irregular speed.
3. Fertilization.

C A car starts to move from rest in straight line, its speed reaches 12 m/sec. after 4 sec. Calculate the acceleration of the car, and what is the type of this acceleration.

Question 2

A Choose the correct answer :

1. Yeast fungus reproduces asexually by.....
 - a. regeneration.
 - b. binary fission.
 - c. budding.

d. spore.

2. The solar system consists of the Sun and planets revolve around it.

a. 7

b. 8

c. 9.

d. 10

3. The image formed by is always virtual, erect and small.

a. convex lens

b. concave mirror

c. plane mirror

d. convex mirror and concave lens

4. The speed of a moving object relative to the observer is considered as.....

a. regular

b. average

c. vector

speed.

d. relative

5. If an object at a distance of 3 metres from a plane mirror. The distance between that object and its image is..... metre.

a. 3

b. 6

c. 9

d. 12

B Explain by drawing:

The formed image by convex lens, when the body at a distance greater than double the focal length. Then write the properties of the formed image.

C Give reasons for the following :

1. Some persons have short-sightedness.
2. Asexual reproduction in living organisms produces individuals identical in genetic structure to those of their parent.

Question 3

Re-write the following statements after correcting the underlined words:

1. The chromosomes chemically consists of nuclear acid called (DNA) and fats.
2. If the radius of curvature of a concave mirror equals 20 cm. its focal length will be 30 cm.
3. In meiotic cell division, Crossing over phenomenon occurs at the end of Anaphase 1.
4. The scientist laplace assumed the modern theory about the origin of solar system.
5. In Telophase of mitosis cell division, two new separate cells are formed, each cell has half number of chromosomes of mother cell.
6. Concave lens converges the light rays that falling on its surface.

B What would happen in the following cases:

1. If the starfish loses one of its arms containing a part of its central disc.

2. If the incident light ray falls parallel to the principal axis of concave mirror.

C Mention the measuring unit for the following:

1. The mass.
2. Vector velocity.

Question 4

A Write the scientific term for the following:

1. The total distance that a moving object covers divided by total time taken to cover this distance.
2. The object's speed changes (increases or decreases) by equal values through equal periods of times.
3. The space which contains all the galaxies, stars, planets, moons and living organisms.
4. A biological process, where the living organism produces new individuals of the same kind and thus, ensuring its continuity.
5. The distance moved through a unit time.
6. The angle between the incident light ray and the perpendicular line on the reflecting surface from the point of incidence.

B Compare between the following:

1. Distance and displacement (according to definition).
2. Real image and virtual image.

Final Examinations
Governorates Form(1)

A Complete the following sentences:

1. Acceleration is considered one of one of **vector**.... physical quantities, while time is considered one of **scalar** ... physical quantities.
2. The solar system is located in one the ... **spiral** Arms of the Milky way on the edge of the galaxy.
3. Somatic cells are divided by ... **mitosis** - ... , while reproductive cells are divided by ... **meiosis**

B What is meant by the following:

1. The optical centre of the lens.:

It is the point inside the lens lies on the Principal axis In Faces the mid distance between its two.

2. Irregular speed. **It is the speed of Irregular speed an object when covers equal distances at unequal periods of time, or covers unequal distances at equal periods of time-**

2. Fertilization. **It is the combination(Fertilization) between male male gamete and female gamete to form zygote.**

C A car starts to move from rest in straight line, its speed reaches 12 m/sec. after 4 sec. Calculate the acceleration of the car, and what is the type of this acceleration.

$$\text{Acceleration (a)} = \frac{V_2 - V_1}{\Delta T} = \frac{12 - 0}{4} = 3 \text{ m/sec}^2$$

-The type of acceleration is Positive acceleration

Question 2

A Choose the correct answer :

1. Yeast fungus reproduces asexually by.....
 - a. regeneration.
 - b. binary fission.
 - c. budding.
 - d. spore.
2. The solar system consists of the Sun and planets revolve around it.
 - a. 7
 - b. 8
 - c. 9.
 - d. 10
3. The image formed by is always virtual, erect and small.
 - a. convex lens
 - b. concave mirror
 - c. plane mirror
 - d. convex mirror and concave lens

4. The speed of a moving object relative to the observer is considered as.....

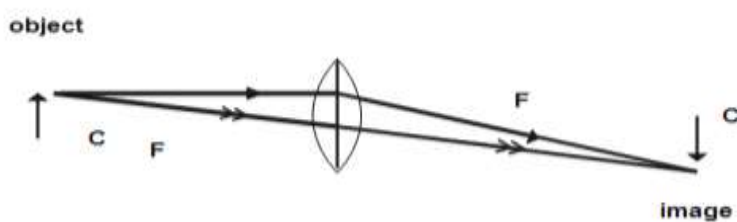
- a. regular
- b. average
- c. vector speed.
- d. **relative**

5. If an object at a distance of 3 metres from a plane mirror. The distance between that object and its image is..... metre.

- a. 3
- b. **6**
- c. 9
- d. 12

B Explain by drawing:

The formed image by convex lens, when the body at a distance greater than double the focal length. Then write the properties of the formed image.



The properties of the formed Image :- real, inverted and diminished.

C Give reasons for the following :

1. Some persons have short-sightedness.

- Due to the elongation of the eyeball, or the surface of the eye lens is more convex

2. Asexual reproduction in living organisms produces individuals identical in genetic structure to those of their parent.

Because asexual reproduction depends on mitotic division, where the new offspring gets a Full copy of the parental individual's genetic traits

Question 3

Re-write the following statements after correcting the underlined words:

1. The chromosomes chemically consists of nuclear acid called (DNA) and **Protein**.
2. If the radius of curvature of a concave mirror equals 20 cm. its focal length will be **10** cm.
3. In meiotic cell division, Crossing over phenomenon occurs at the end of **prophase 1**.
4. The scientist **Fred Hoyle** assumed the modern theory about the origin of solar system.
5. In Telophase of mitosis cell division, two new separate cells are formed, each cell has **Same** number of chromosomes of mother cell.
6. Concave lens **diverges** the light rays that falling on its surface.

B What would happen in the following cases:

1. If the starfish loses one of its arms containing a part of its central disc.

The starfish arm could be reproduce by regeneration and a give out complete animal

2. If the incident light ray falls parallel to the principal axis of concave mirror.

It will reflect passing through the focus

C Mention the measuring unit for the following:

1. The mass. → **Kilogram or gram**
2. Vector velocity. → **m/sec or Km/ h.**

Question 4

A Write the scientific term for the following:

1. The total distance that a moving object covers divided by total time taken to cover this distance. **Average speed**
2. The object's speed changes (increases or decreases) by equal values through equal periods of times. **uniform acceleration**
3. The space which contains all the galaxies, stars, planets, moons and living organisms. **Universe**
4. A biological process, where the living organism produces new individuals of the same kind and thus, ensuring its continuity.

Reproduction

5. The distance moved through a unit time. **speed**
6. The angle between the incident light ray and the perpendicular line on the reflecting surface from the point of incidence. **Angle of incidence**

B Compare between the following:

1. Distance and displacement (according to definition).

| Distance | Displacement |
|---|--|
| The actual length of the path that a moving object takes from the start point of movement to the end point. | the length of shortest straight Line between 2 Position. |

2. Real image and virtual image.

| • <i>Real image</i> | virtual image |
|---|--|
| It is the image which Can be recieved on a Screen. | It is the image which can't be recieved on a Screen |

