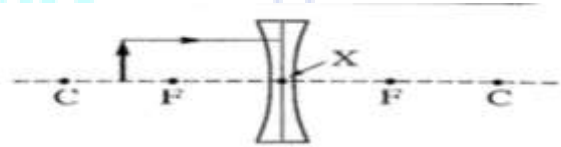


الاجابات نهاية الصفحة

A Complete the following statements:

1. The solar system lies on one of the spiral arms of..... galaxy.
2. From the scalar physical quantities is....., while.. is from the vector physical quantities.
3. Condensing the cytoplasm in the two poles of the plant cells forms.....
4. Crossing over phenomenon happens between the during the meiosis division.

B1. Copy the figure then draw the rays that form the image of the object.



2. The point (X) refers to.....

C What is meant by the followings...?

1. Fertilization.
2. The radius of curvature of a mirror.

Question 2**A Choose the right answer:**

1. When a moving object covers equal distances in unequal intervals of time, so it moves by.....
 - a. average speed.
 - b. relative speed.
 - c. uniform speed.
 - d. irregular speed.
2. The scientist who published a research including his vision about the Nebular assumption
 - a. Chamberlin.

- b. Laplace.
- c. Fred Hoyle.
- d. Molten.

3. An object was put at 10 cm from a concave mirror, a real, inverted and equal image was formed, if the object moved 3 cm towards the mirror, so the formed image will be.....

- a. real, inverted and diminished.
- c. virtual diminished.
- b. real, inverted and enlarged.
- d. virtual enlarged.

4. An observer in a moving car with 80 km/h was observing a moving car with 90 km/h in the same direction so, the observed speed of the 2nd car is

- a. 10 km/h.
- b. 80 km/h.
- c. 90 km/h.
- d. 170 km/h.

B What are the results of the followings ... ?

- 1. Falling of parallel beam of light parallel to the principal axis of a convex lens.
- 2. The meiosis division inside the anther and the ovary of a flower.

C Name the phase that indicates the following changes during the cell division:

- 1. Form two separate groups of chromatids.
- 2. Disappearing of the nucleolus and the nuclear membrane.

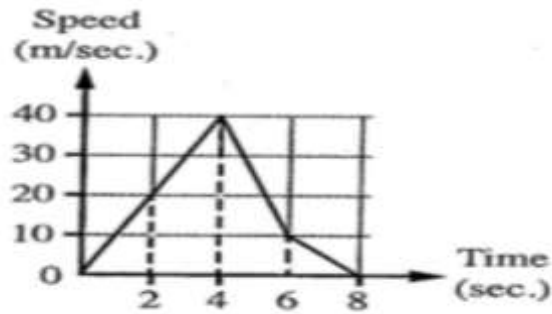
Question 3

A Write the scientific term for the following:

- 1. Groups of stars gathered in distinctive shape.
- 2. The ability of some animals to compensate their missing parts.

B The next graph illustrates the movement of a car, study it and answer the following:

1. The driver used the brake for the first time at the.....second when the speed value was m/sec



2. Calculate the acceleration of the car through 4 seconds from the starting point.

C Compare between long-sightedness and short-sightedness concerning the concept and the treatment.

Question 4

A Correct the underlined parts in the following:

1. Amoeba reproduces by budding.
2. The formed image of an object that is put at the centre of curvature for a convex lens is virtual enlarged.

B Give reasons for the following:

1. The sporangium of bread mould fungus must be ruptured during reproduction.
2. The merging of atomic particles that happened during the Big Bang produced stars and the universe.

Look at the following figures and answer :

1. Which of the two figures express the formation of F letter image.
2. The other figure is wrong because.....and.....

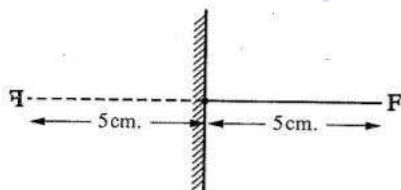


Figure (1)

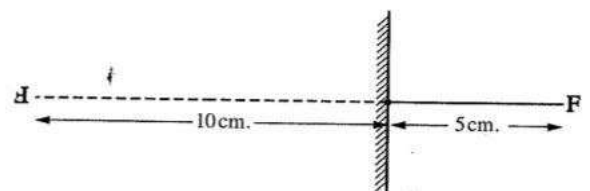


Figure (2)

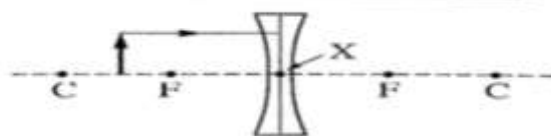
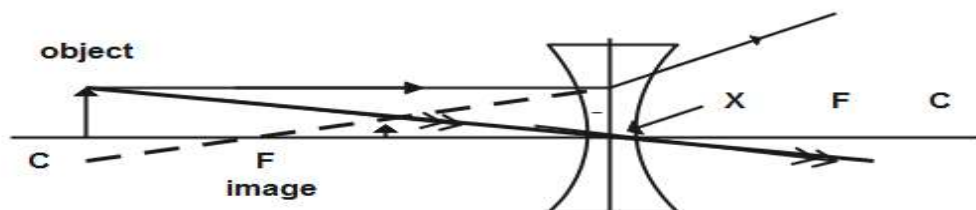
Answer the following questions:

Question 1

A Complete the following statements:

1. The solar system lies on one of the spiral arms of... **Milky way** . galaxy.
2. From the scalar physical quantities is..... **mass-** , while **acceleration** .. is from the vector physical quantities.
3. Condensing the cytoplasm in the two poles of the plant cells forms.... **spindle fibers.....**
4. Crossing over phenomenon happens between the . **inner chromatides of the tetrad.....** during the meiosis division.

B1. Copy the figure then draw the rays that form the image of the object.



2. The point (X) refers to.... **The optical Centre.....**

C What is meant by the followings...?

1. Fertilization. **Fusion of male gametes and Female gametes to form the zygote.**
2. The radius of curvature of a mirror. **It is the radius of the sphere that the mirror part of it.**

Question 2

A Choose the right answer:

1. When a moving object covers equal distances in unequal intervals of time, so it moves by.....

- a. average speed.
- b. relative speed.
- c. uniform speed.
- d. **irregular speed.**

2. The scientist who published a research including his vision about the Nebular assumption

- a. Chamberlin.
- b. **Laplace.**
- c. Fred Hoyle.
- d. Molten.

3. An object was put at 10 cm from a concave mirror, a real, inverted and equal image was formed, if the object moved 3 cm towards the mirror, so the formed image will be.....

- a. real, inverted and diminished.
- c. virtual diminished.
- b. **real, inverted and enlarged.**
- d. virtual enlarged.

4. An observer in a moving car with 80 km/h was observing a moving car with 90 km/h in the same direction so, the observed speed of the 2nd car is

- a. **10 km/h.**
- b. 80 km/h.
- c. 90 km/h.
- d. 170 km/h.

B What are the results of the followings ... ?

1. Falling of parallel beam of light parallel to the principal axis of a convex lens.

They are collected at the Focus [real focus]

2. The meiosis division inside the anther and the ovary of a flower.

The pollen grain will produced inside the anther the ovules will produced inside the ovary

C Name the phase that indicates the following changes during the cell division:

1. Form two separate groups of chromatids. **Anaphase**
2. Disappearing of the nucleolus and the nuclear membrane. **prophase**

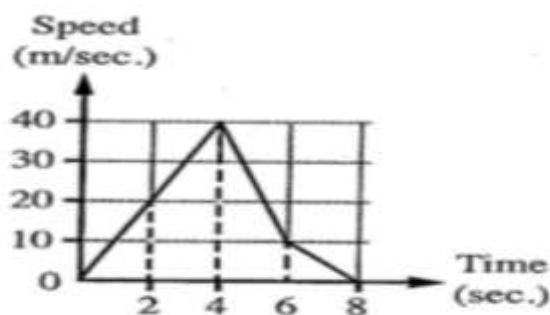
Question 3

A Write the scientific term for the following:

1. Groups of stars gathered in distinctive shape. **Galaxy**
2. The ability of some animals to compensate their missing parts.
Regeneration

B The next graph illustrates the movement of a car, study it and answer the following:

1. The driver used the brake for the first time at the **fourth**.....second when the speed value was ...**40**..... m/sec



2. Calculate the acceleration of the car through 4 seconds from the starting point.

$$\text{Acceleration (a)} = \frac{V_2 - V_1}{T} = \frac{40 - 0}{4} = 10 \text{ m/s}$$

C Compare between long-sightedness and short-sightedness concerning the concept and the treatment.

Long-sightedness		short - sightedness
Concept	Seeing the far objects clearly but the close objects are not clearly.	seeing the close objects clearly but the far objects are not seen clearly.
Treatment	By using convex lens	using concave lense

Question 4

A Correct the underlined parts in the following:

1. Amoeba reproduces by **binary Fission**
2. The formed image of an object that is put **at a distance smaller than the focal length.** for a convex lens is virtual enlarged.

B Give reasons for the following:

1. The sporangium of bread mould fungus must be ruptured during reproduction.

To release the pores and fall on suitable environment to start growing and produce new organism

2. The merging of atomic particles that happened during the Big Bang produced stars and the universe.

Due to the formation of hydrogen and helium gases

Look at the following figures and answer :

1. Which of the two figures express the formation of F letter image.

Figur1

2. The other figure is wrong because.....and.....

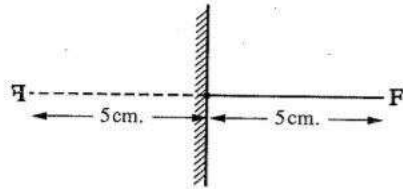


Figure (1)

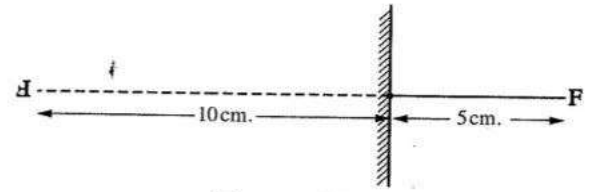


Figure (2)

The distance between the object and the mirror is not equal the distance between the image and the mirror.

→The image is inverted not upright.



بسم الله الرحمن الرحيم
 نلهمك لتبدع ...!