This is a Class 1 exam

Lebanon Evangelical School
for Boys and Girls
Loueizeh - Baabda

Stage Exam 04
27MAR2023

Do NOT write in this box. Your MARK will be placed here.

Subject :	Physics
Class :	7A, 7B, 7C and 7E
Teacher :	Elyann Daher
Duration :	1 hour
Write all the answers on a separate paper	

Your name :		*Time taken to complete exam*
Your Class :		
Exam Room :		
How many sheets, including cover sheet :		

- Do not open this paper until the teacher in charge instructs you to do so.
- The most important thing to remember in taking an exam is NEVER PANIC.
- If you are caught cheating in this exam, you will be awarded zero for ALL exams that are taken on this day.

SE04/20222023/Physics/7ABCE

1) All calculators are not allowed

2) This exam is composed of 5 papers

3) All the answers should be written on a separate paper, anything written on the question sheet will NOT be graded

A- Choose the correct answer:(1pt each)

1. How long does it take the Moon to rotate once

a) 24h b) 27.3h c) 27.3days

2. Earth is closest to the Sun during which season in the northern hemisphere?

a) Spring b) Winter c) Summer

3. What causes the Sun to appear to rise and set

a) Earth's revolution b) Earth's rotation c) Earth's gravity

4. What is it called when the phases of the Moon appear to get larger

a) waning b) waxing c) rotation

5.What kind of eclipse occurs when the Moon blocks sunlight from reaching Earth?

a) solar b) full c) lunar

6. What is the darkest part of the shadow during an eclipse?

a) umbra b) penumbra c) waxing gibbous

7. Which of the following terms would you use to describe the spinning of Earth on its axis?

a) rotation b) eclipse c) revolution

8. Which term describes the dark, flat areas on the Moon's surface

a) maria b) spheres c) highlands

9. The longest day shortest night or shortest day longest night is called

a) solstice b) equinox c) crater

B- Fill in the blanks with the correct vocabulary word or words.(1pt each)

1- The spinning of Earth around its axis is called _____.

2- The Moon is said to be _____ when less and less of the side facing Earth is lighted.

3- Earth's orbit is a(n) _____.

4- A year is caused by Earth's _____.

5- The _____ of Earth along with its revolution cause seasons.

6- The _____ is the day in which the Sun's rays hit both hemispheres equally.

7- An eclipse occurs when some celestial body moves into the _____ of another celestial body.

8- A _____ eclipse is an eclipse of the Sun.

9- The _____ is not the darkest part of a shadow.

C- Say whether the following statements are Right or Wrong. (1pt each)

1- The side of the Earth not reached by Sun's rays experiences daytime.

2- The path Earth takes around the Sun is called revolution.

3- It takes Earth 367 days to orbit the Sun.

4- Revolves has the same meaning as rotates.

5- Leap year is a year that has one extra month.

6- The Moon is one of Earth's natural satellites.

7- A lunar eclipse occurs when the Earth comes between the Sun and the Moon.

8- A total solar eclipse occurs when the Sun is between the Earth and the Moon.

9- A total solar eclipse can be seen from everywhere on Earth.

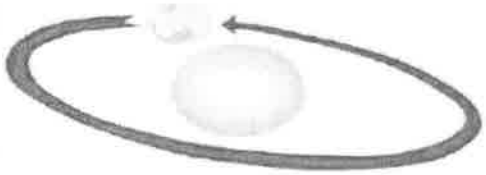
D- Draw a picture ON YOUR ANSWER SHEET in which you will represent

a light source,

blocked by an object from reaching the screen,

along with the different parts of the shadow formed. (5pts).

E- For each picture say whether rotation is involved or revolution (1pt each)



1



2



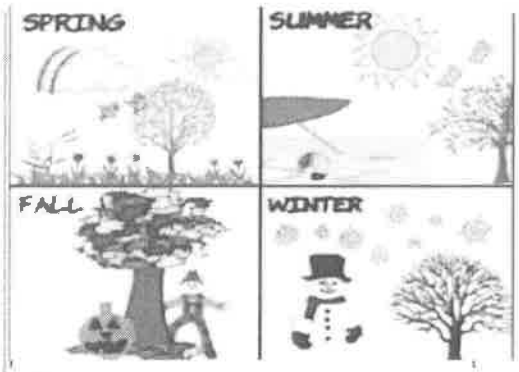
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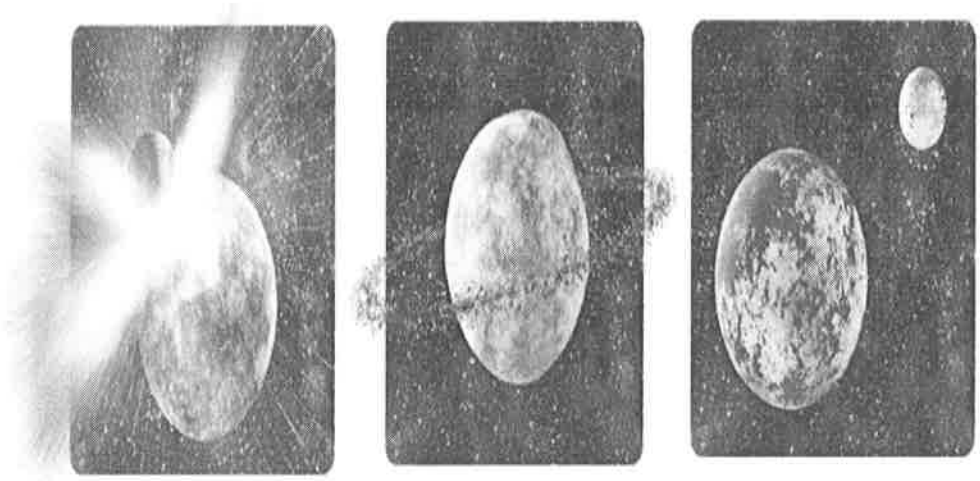
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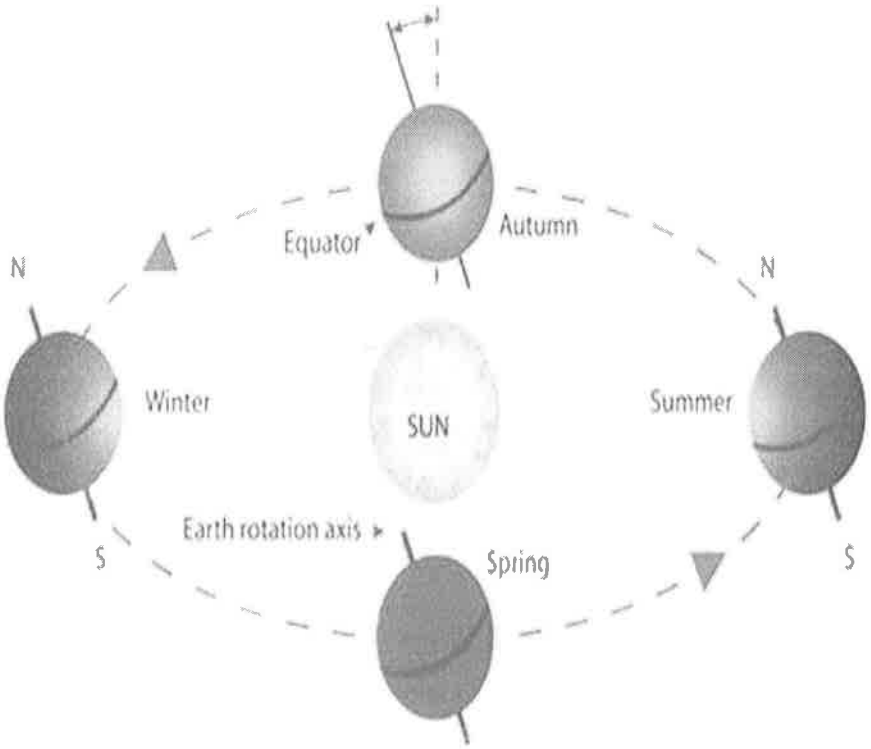
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F- FOR EACH PICTURE, write a paragraph of 3 to 5 lines that explains each photo or illustration (5pt each)

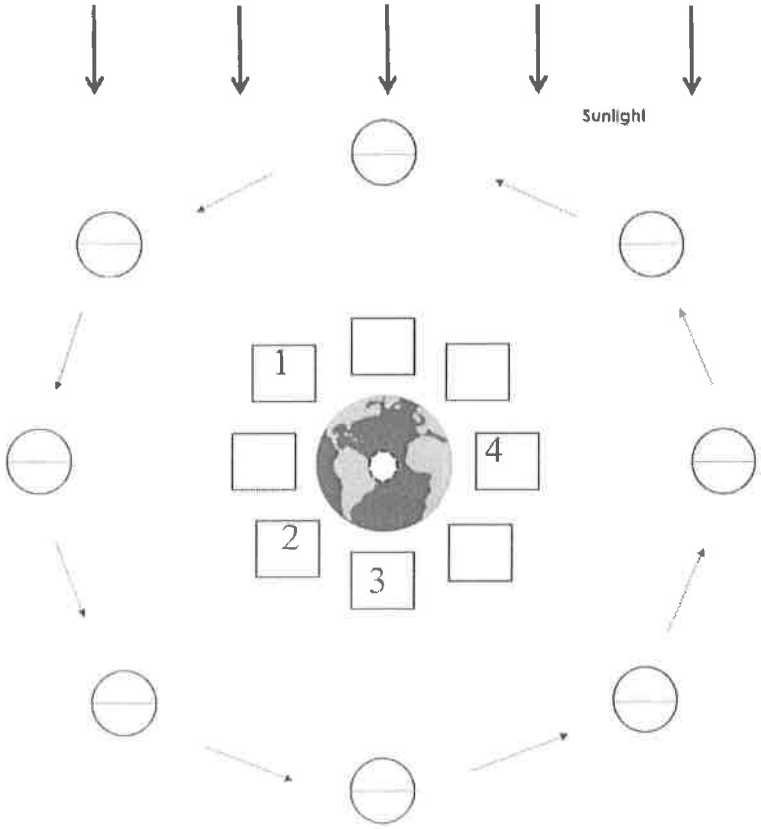
1)



2)



G- Given the following picture tell which phases we will be seeing when the Moon is in positions 1, 2, 3, 4, and DRAW them on the ANSWER sheet(2pts)



H -Answer the following questions:(2pts each)

1. Where does the light we see from the moon come from?
2. Why do we see the moon's phases?
3. What can the craters on the moon tell us.
4. Explain why eclipses of the Sun occur only occasionally despite the fact that the Moon's rotation causes it to pass between Earth and the Sun every month.
5. How would solar eclipses be different if the Moon were twice as far from Earth? Explain.

SE04 / 2022 2023 / Physics / 7ABCE

A. 1. c. 27.3 days
2. c. Summer
3. b. Earth's Rotation
4. b. waxing
5. a. Solar
6. a. umbra
7. a. rotation
8. a. Maria
9. a. Solstice

1pt Each

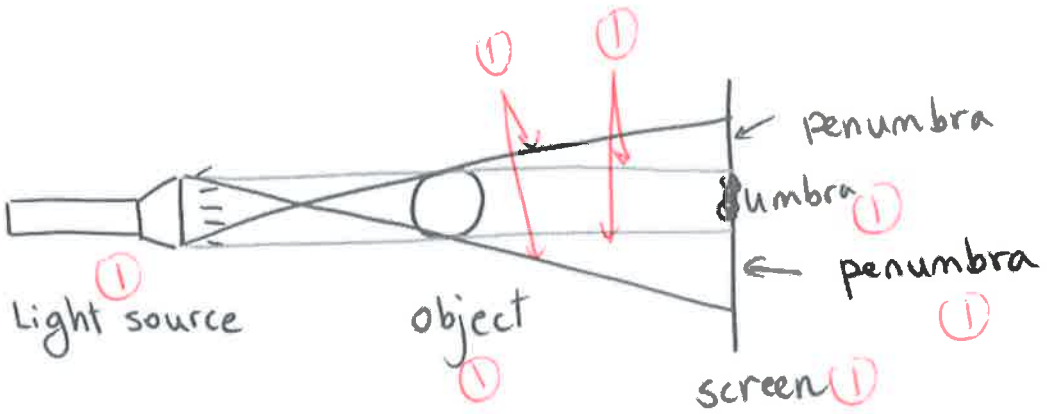
B. 1. Rotation
2. waning
3. path
4. Revolution
5. Tilt of Earth's Axis
6. Equinox
7. Shadow
8. Solar
9. Penumbra

1pt Each

C 1. Wrong
2. Wrong
3. Wrong
4. Wrong
5. Wrong
6. Wrong
7. Correct
8. Wrong
9. Wrong

1 pt Each

D.



E. 1. Revolution
2. Rotation
3. Rotation
4. Rotation
5. Revolution
6. Revolution

1pt Each

F. 1. A collision between a Mars sized object and Earth occured, vaporized rocks were ejected into space and a ring formed around Earth. Then all these materials in the ring cooled, and clumbed together and formed the Moon. (5)

2. The tilt of Earth's axis along with Earth's revolution around the Sun cause seasons. (5)
When the Northern hemisphere is tilted toward the Sun, it gets a larger amount of direct sunlight causing longer days and warmer temperatures.
The opposite thing happens during winter.
When the Earth's axis is leaning along the orbit not towards neither away we would have equinox

G. 1 waxing crescent (1) (1)

2. waxing gibbous (1) (1)

3. Full Moon (1) (1)

4. Last quarter (1) (1)

I. 1. The Moon seems to shine but in fact it doesn't emit the Light. It only reflects light from the Sun.

2pts each

2. As the position of the Moon changes as it revolves around Earth, we observe different moon phases, these phases depend on how much of the sunlit side of the Moon faces Earth.

3. Craters are holes on the Moon surface, they tell us that many objects from space hit the Moon's surface.

4. The Moon is on an inclined plane to Earth, this is why eclipses occur only when Sun, Earth, Moon are perfectly aligned.

5. If the Moon was twice as far from Earth, its shadow on Earth would be bigger, and the region that would fall in the umbra of the Moon, and experiences a total Solar Eclipse would be bigger