

# B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

ANNUAL EXAMINATION 2026-26  
SCIENCE (SET - 2)

Class: V  
Date: 16/3/26  
Admission no:

Time: 3hour  
Max Marks: 80  
Roll no:

## ANSWER KEY

- |   |   |
|---|---|
| 1. (a) Heat energy                          | 1 |
| 2. (c) wheel and axle                       | 1 |
| 3. (a) Fixed                                | 1 |
| 4. (b) inclined plane                       | 1 |
| 5. (a) Opaque                               | 1 |
| 6. (c) energy                               | 1 |
| 7. (a) Sun                                  | 1 |
| 8. Transparent                              | 1 |
| 9. (c) Carbon dioxide                       | 1 |
| 10. (a) Thermosphere                        | 1 |
| 11.(b) Ozone layer                          | 1 |
| 12. (b) Vegetable peel                      | 1 |
| 13. (b) To produce less waste               | 1 |
| 14. (a) Green                               | 1 |
| 15. (a) Movement of tectonic plates         | 1 |
| 16. (b) An earthquake under the ocean floor | 1 |
| 17. (a) Volcanic eruptions                  | 1 |
| 18. (a) Solar                               | 1 |
| 19. (b) umbra                               | 1 |
| 20. (b) Earth                               | 1 |

21. Non-renewable energy is energy that comes from natural resources that cannot be replaced quickly.

Once they are used up, they take millions of years to form again, so they can run out.

Two examples:

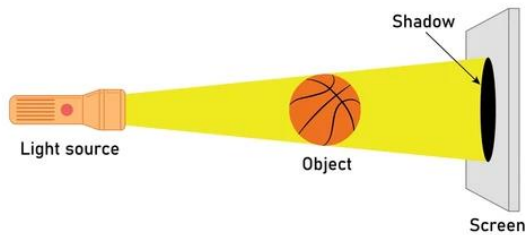
1. Coal
2. Petroleum (oil)

Other examples include natural gas and nuclear fuel. 1+1

22. 1. Wheelbarrow 2. Nutcracker
23. They allow most the light to pass through them. They do not block the light 1+1

Or

A dark patch on surface- Shadow



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24.

<b>Stratosphere</b>	<ul style="list-style-type: none"> <li>• It is the second layer of the atmosphere, which contains the ozone layer and protects the earth from harmful sunrays.</li> <li>• Airplanes fly in this layer because there is no disturbance from the presence of rain or clouds like in the troposphere.</li> </ul>
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1+1

- 25.1. Using vehicles that run on petrol and diesel
2. Cutting plants and trees 1+1

26. Explain the waning of the Moon.

Waning of the Moon

Waning means the gradual decrease in the visible part of the Moon seen from the Earth after a Full Moon.

- After a Full Moon, the bright part of the Moon starts shrinking.

It continues to shrink until it becomes a New Moon, when the Moon is no longer visible 1+1

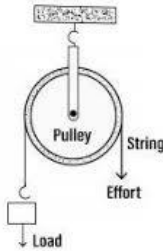
27. Ways to Conserve Energy at Home

1. Switch off lights and fans when not in use.
2. Unplug chargers and electrical appliances after using them.
3. Use sunlight during the day instead of switching on lights.

Ways to Conserve Energy at Home

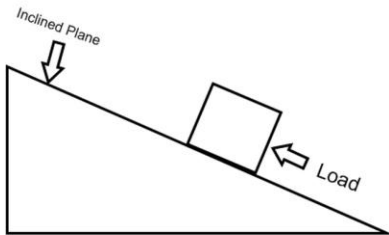
1. Switch off lights and fans when not in use.
2. Unplug chargers and appliances after using them.
3. Use natural sunlight during the day instead of turning on lights. 1+1+1

28. A pulley is a simple machine made of a wheel with a rope or string passing over it. It helps us lift heavy objects easily by changing the direction of force.



1+1+1

29. An inclined plane is a sloping surface that helps us move heavy objects up or down more easily.



1+1+1

### 30. Causes of Earthquake

1. Tectonic Plate Movement – Most earthquakes happen when Earth's plates collide, slide past, or move away from each other.
2. Volcanic Activity – Magma movement inside the Earth can cause shaking.
3. Human Activities – Large explosions, mining, or drilling can sometimes trigger small earthquakes.

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### Effects of Earthquake

1. Damage to Buildings and Roads – Houses, schools, and bridges can collapse.
2. Loss of Life and Injuries – People and animals may get hurt or killed. 1+1+1

### 31. Landslides

A landslide is the sudden downward movement of rocks, soil, and debris from a slope or hill. It usually happens after heavy rain, earthquakes, or human activity.

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## Causes of Landslides

### 1. Heavy Rainfall

- Rainwater soaks the soil, making it heavy and slippery, causing it to slide.

### 2. Earthquakes

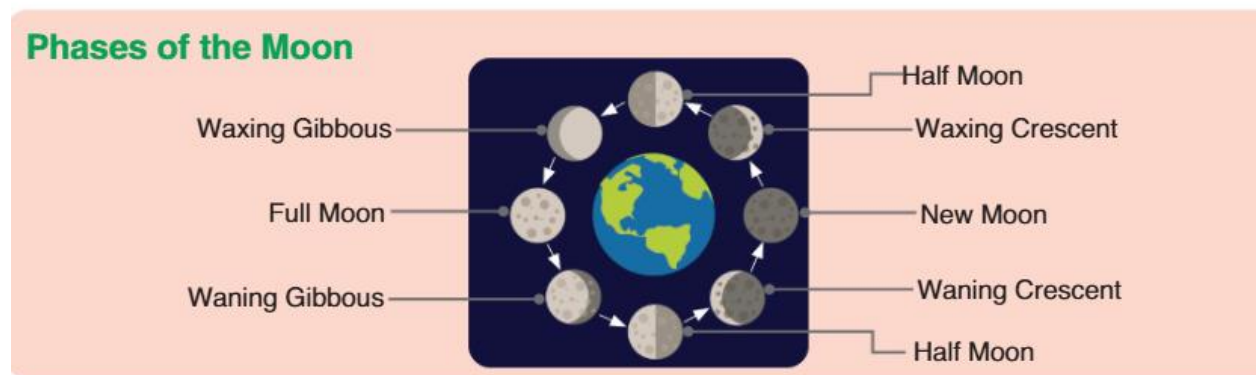
- Shaking of the ground loosens rocks and soil, triggering landslides.

### 3. Deforestation

- Cutting down trees removes roots that hold the soil together, making slopes unstable.

1+1+1

32.



1+1+1

## 33. Two Eclipses Observed from the Earth

### 1. Solar Eclipse

- Occurs when the Moon comes between the Sun and the Earth, blocking the Sun's light.
- Moon Phase: New Moon

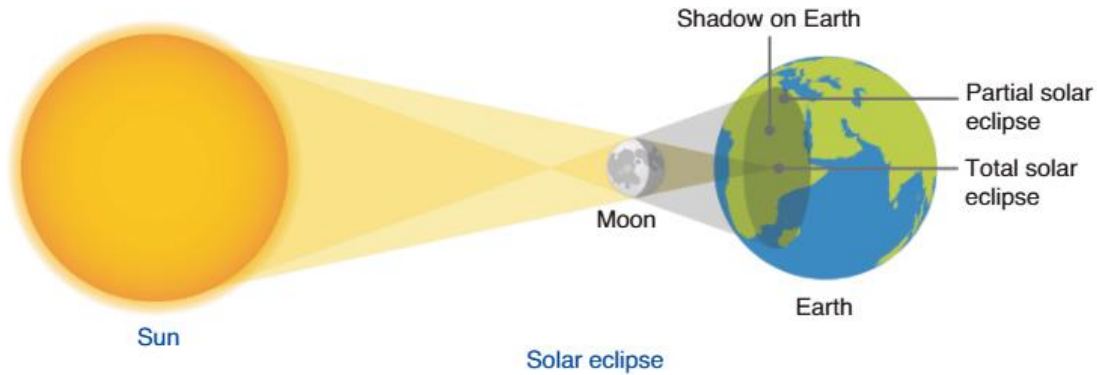
### 2. Lunar Eclipse

- Occurs when the Earth comes between the Sun and the Moon, casting a shadow on the Moon.
- Moon Phase: Full Moon

Or

## Solar Eclipse

A solar eclipse occurs when the Moon comes in between the Sun and Earth. This blocks the sunlight from reaching Earth and casts a shadow or a dark patch on it. This means that the places on Earth where the shadow of the Moon falls become dark. People in these places cannot see the Sun, that is, the Sun is hidden from them. This is called a solar eclipse. A solar eclipse occurs on a new moon day.



1+1+1

34. Case study Based:

- (i) Translucent materials
  - (ii) Frosted glass, butter paper, and tracing paper.
  - (iii) Opaque materials form clear, distinct shadows as they completely block the path of light
- Or
- (iv) They allow light to pass through them completely. Air, Glass

1+1+2

35. Case study Based:

- (i) Releasing harmful substances in the air is called air pollution
  - (ii) • Factories and manufacturing plants
    - Oil refineries and washing clothes in water bodies
  - (iii) Polluted air can cause breathing problems, such as asthma, and irritation in the eyes
- Or
- (iv) Factories should be located far from places where people live. We should not burn garbage and avoid firecrackers.

1+1+2

36.

- (i) A cyclone forms when a storm spins over a warm area of the ocean
  - (ii) Gujarat & coastal areas are frequently affected by cyclones.
  - (iii) Some possible effects of cyclones are as follows: Trees get uprooted, rooftops get blown away,
- Or
- (iv) 1. Stay indoors and away from windows,.

1+1+2

2. Keep an emergency kit ready

37. Conservation of Energy

Conservation of energy means saving energy by using it carefully and not wasting it.

Three steps to conserve energy at school:

1. Switch off lights and fans when not in use.
2. Turn off computers and projectors after class.
3. Use natural light and fresh air by opening windows during the day. 2+3

Or

Mechanical Energy    Light Energy

Energy of movement or position of an object.    Energy that produces light and helps us see.

It is produced when objects move or are lifted.    It travels in the form of light rays.

Example: Moving car, running fan

Example: Sunlight, electric bulb

Sources: Sun, Bulb and candle 3+2

38. Many human activities are increasing the amount of greenhouse gases in the atmosphere. This is causing the greenhouse gases to lock more heat than they used to. This, in turn, has increased the temperature of the earth, making it warmer. This heating up of the earth is called global warming

Or

The extra heat due to global warming changes our weather patterns, causing stronger storms, irregular rains, melting ice caps, and rising sea levels. This change in the general weather conditions— such as temperature and rainfall in a place over a long period is called climate change.

1. Strong storm 2. Melting of ice caps 3+2

39.

Waste is any material that is unwanted or no longer useful to us.

Biodegradable waste is waste that can be broken down naturally by tiny living organisms like bacteria and fungi.

It mixes with the soil and does not harm the environment.

Two examples:

1. Fruit and vegetable peels

2. Dry leaves

3+2

Or

Non-biodegradable waste is waste that cannot be broken down naturally by microorganisms like bacteria and fungi.

It does not rot easily and stays in the environment for a very long time.

Two examples:

1. Plastic bottles

2. Metal cans

The green bin is used to collect kitchen waste and animal waste that are biodegradable.

•The blue bin is used to collect materials that can be reused, such as glass, plastic, and metals.

3+2

\*\*\*\*\*Best of Luck\*\*\*\*\*