



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: 16/03/26

Admission no:

Time: 3hour

Max Marks: 80

Roll no:

General Instructions:

- This question paper consists of 39 questions in 5 sections.
- Section A consists of 20 multiple choice questions carrying 1 mark each.
- Section B consists of 6 Short Answer questions with 2 marks each.
- Section C consists of 7 Short Answer questions with 3 marks each.
- Section D consists of 3 Case study Based questions with 4 marks each.
- Section E consists of 3 Long answer questions with 5 marks each.

SECTION A (1 Mark)

- Which form of energy is produced when you rub your hands together?
(a) Heat energy (b) Sound energy (c) Electrical energy (d) Light energy
- A doorknob is an example of a/an:
(a) lever (b) pulley (c) wheel and axle (d) inclined plane
- Which type of pulley is used in construction cranes?
(a) Fixed (b) Movable (c) Combined (d) None of these
- A sloping road is an example of a/an:
(a) lever (b) inclined plane (c) screw (d) pulley
- Materials do not allow the light to pass through it:
(a) Opaque (b) Transparent (c) Translucent (d) All of these
- Light is a form of:
(a) colour (b) material (c) energy (d) all of these
- Example of Luminous object is:
(a) Sun (b) Book (c) Table (d) All of these
- Materials allow the light to pass through it:
(a) Opaque (b) Transparent (c) Translucent (d) All of these
- Which gas do plants need for photosynthesis?
(a) Oxygen (b) Nitrogen (c) Carbon dioxide (d) All of these
- Which is the hottest layer of the atmosphere?
(a) Thermosphere (b) Stratosphere (c) Exosphere (d) None of these
- What protects the earth from harmful sunrays?
(a) Clouds (b) Ozone layer (c) Water vapour (d) None of these

12. Which of the following is an example of biodegradable waste?
 (a) Glass bottle (b) Vegetable peel (c) Plastic bag (d) All of these
13. What does 'reduce' mean in waste management?
 (a) To make new materials (b) To produce less waste
 (c) To change the form of an item (d) All of these
14. What colour bin is used to collect materials that can be reused?
 (a) Green (b) Yellow (c) Blue (d) None of these
15. What causes an earthquake?
 (a) Movement of tectonic plates (b) Eruption of a volcano
 (c) Heavy rains (d) None of these
16. A tsunami is caused by:
 (a) Wind blowing over the ocean (b) An earthquake under the ocean floor
 (c) Heavy rainfall (d) None of these
17. Which of the following disasters causes the release of large amounts of smoke in the air?
 (a) Volcanic eruptions (b) Earthquake (c) Cyclone (d) None of these
18. Which eclipse occurs when the Moon comes between the Sun and Earth?
 (a) Solar (b) Partial lunar (c) Lunar (d) None of these
19. The places on Earth where the _____ falls experience a total solar eclipse.
 (a) penumbra (b) umbra (c) shadow (d) None of these
20. A lunar eclipse happens when _____ blocks sunlight from reaching the Moon.
 (a) Sun (b) Earth (c) Moon (d) None of these

SECTION – B (2Marks)

21. Define non-renewable energy. Give two examples.
22. Give two examples of Second order lever.
23. Why transparent objects do not form Shadow?
 Or
 What is shadow? Explain it with the help of diagram.
24. Which layer protects us from skin damage caused by UV rays? How does it protect us?
25. Write any two causes of Global warming.
26. Explain the waning of the Moon.

SECTION – C (3Marks)

27. Write down a few ways to conserve energy at home.
28. What is Pulley? Draw and label the diagram of Pulley.
29. What is inclined plane? Draw and label the diagram of inclined plane.
30. Explain the cause and effects of Earthquake.
31. What are landslides? Discuss the causes of Landslides
32. Describe the different phases of the Moon with the help of a diagram.
33. Name two eclipses observed from the Earth. During which phase of the Moon do they occur?

Or

Explain how a solar eclipse occurs with the help of a diagram.

SECTION – D (4 Marks)

34. Case study Based:

We know that translucent and opaque objects can form shadows. Translucent materials allow some light to pass through them. So, we cannot see through them clearly. Some examples of translucent materials are frosted glass, butter paper, and tracing paper. Translucent materials form unclear and faint shadows as they allow some light to pass through them. Transparent materials do not form shadows as they allow light to pass through them completely. Opaque materials form clear, distinct shadows as they completely block the path of light.

- (i) Name the materials that allow some light to pass through them? 1
- (ii) Give two examples of translucent materials. 1
- (iii) Why Opaque objects form shadow?
Or
(iii) What are transparent materials. Give one example? 2

35. Case study Based:

Releasing harmful substances in the air is called air pollution. Polluted air can cause breathing problems, such as asthma, and irritation in the eyes. Sometimes, it can mix with rain and cause damage to plants and buildings. Factories should be located far from places where people live. We should not burn garbage and avoid firecrackers. We should plant more trees to prevent air pollution.

- (i) What is air pollution? 1
- (ii) Which activities are causing air pollution? 1
- (iii) Write two effects of air pollution.
Or
(iii) How can we prevent the air pollution? 2

36. A cyclone forms when a storm spins over a warm area of the ocean. It begins in the ocean and when it reaches land, it brings heavy rain and strong winds. Many cyclones occur over warm areas of the Indian Ocean. They affect coastal areas and cause a lot of damage. Coastal areas in India that are frequently affected by cyclones are shown on the given map. Gujarat's coastal areas are frequently affected by cyclones. Some possible effects of cyclones are as follows: Trees get uprooted, rooftops get blown away, and vehicles get overturned. Farms and crops get destroyed.

- (i) How does cyclone form? 1
- (ii) Which areas are mostly affected by cyclone? 1

(iii) What are the effects of cyclone?

Or

(iii) Write two precautions to be taken during cyclone.

2

SECTION – E (5 Marks)

37. What is conservation of Energy? Write three steps to conserve the energy at school.

Or

How Mechanical energy is different from light energy. Write three sources of light energy.

38. What is Global warming? Explain it with the help of diagram.

Or

Explain the climate change. Write the two effects of climate change.

39. What is Waste? Explain biodegradable waste. Write two examples.

Or

Explain Non-biodegradable waste. Write two examples. How can we manage waste at home?

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