



# B.K. BIRLA CENTRE FOR EDUCATION

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

ANNUAL EXAMINATION 2026-26

SCIENCE (SET - 1)

Class: V

Date: 16/03/26

Admission no:

Time: 3hour

Max Marks: 80

Roll no:

## General Instructions:

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

## SECTION A (1 Mark)

1. Which of the following is not a form of energy?  
(a) Light (b) Heat (c) Soil (d) Sound
2. A slide is an example of a/an :  
(a) lever (b) inclined plane (c) wedge (d) screw
3. Fixed pulleys are used in:  
(a) water wells (b) construction cranes (c) drill machine (d) door knob
4. Which of the following is used to cut things?  
(a) Wedge (b) Pulley (c) Wheel and axle (d) Inclined plane
5. Which of these objects allows most of the light to pass through it?  
(a) Glass window (b) Cardboard (c) Book (d) Butter paper
6. Which of these objects does not allow light to pass through it?  
(a) Plastic bag (b) Frosted glass (c) Wooden table (d) Glass door
7. Which of the following conditions is NOT necessary for the formation of a shadow?  
(a) A source of light (b) A screen (c) An opaque object (d) Coloured light
8. Which feature of a shadow is described correctly?  
(a) It shows all the details of the object. (b) It has the same colour as the object.  
(c) It only shows the outline of the object.  
(d) Its size decreases when the light source is moved closer to the object.
9. Which of the following is NOT a layer of the atmosphere?  
(a) Exosphere (b) Thermosphere (c) Hydrosphere (d) Mesosphere
10. Which is the hottest layer of the atmosphere?  
(a) Stratosphere (b) Mesosphere (c) Thermosphere (d) Troposphere
11. heating up of the earth making it warmer is called :  
(a) Floods (b) photosynthesis (c) global warming (d) earthquake

12. Which of the following is a non-biodegradable waste?  
 (a) Leftover apple      (b) Glass bottle      (c) Cow dung      (d) Food waste
13. What can you do with old newspapers to help reuse waste?  
 (a) Burn them.      (b) Use them as wrapping paper.  
 (c) Throw them in the bin.      (d) Cut them.
14. Which of these actions causes water pollution?  
 (a) Bathing animals in rivers      (b) Washing clothes in rivers  
 (c) Releasing household waste into the river      (d) All of the above
15. An earthquake measuring 6.5 on the Richter scale is:  
 (a) minor      (b) moderate      (c) strong      (d) great
16. Which of the following is a cause of volcanic eruptions?  
 (a) Heavy rainfall      (b) Deforestation      (c) Movement of tectonic plates  
 (d) Strong winds
17. Which of the following is NOT a cause of floods?  
 (a) Clogging of drains      (b) Cloudbursts      (c) Deforestation      (d) High-speed wind
18. What is the name given to the large holes on the surface of the Moon?  
 (a) Craters      (b) Valleys      (c) Mountains      (d) Rocks
19. What does the Moon NOT have?  
 (a) Mountains      (b) Valleys      (c) Atmosphere      (d) Gravity
20. At which phase does the Moon start to grow?  
 (a) New moon      (b) Waxing crescent      (c) Waning crescent      (d) Full moon

SECTION – B (2Marks)

21. What is solar energy? How is it useful for us?
22. Give two examples of Simple machines.
23. How are shadows formed by translucent objects different from those formed by opaque objects?  
 Or  
 Explain shadow with the help of diagram.
24. How does the greenhouse effect keep the earth warm?
25. Write any two effects of climate change.
26. Define the terms waxing and waning of the Moon.

SECTION – C (3Marks)

27. Explain the Magnetic force and Gravity with the help of diagram.
28. What is First order lever? Draw and label the diagram of First order Lever.
29. What is wheel and axle? Draw and label the diagram of wheel and axle.
30. What is a forest fire? List two causes of forest fires.
31. What is a cyclone? Name the areas in India frequently affected by cyclones.
32. Explain how a solar eclipse occurs 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 lunar 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. Do you think they form the same kind of shadows? 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) Which materials form unclear and faint shadows? 1

(ii) What is shadow? 1

(iii) What are transparent materials? Give one example. 1

Or

(iii) What are opaque materials? Give one example. 1

35. Case study Based:

Land pollution happens when the land gets dirty and damaged. Noise pollution happens when there is too much loud or unpleasant sound in the environment. There are the many effects of land pollution such as Being around polluted land can lead to health problems in humans, such as infections., Eating fruits and vegetables grown in polluted soil can cause diseases because they may contain chemicals., Cutting down trees leads to soil erosion and a loss of soil fertility.

(i) What is Land pollution? 1

(ii) Which activities are causing land pollution? 1

(iii) Write two effects of Land pollution. 2

Or

(iii) How land pollution is different from Noise pollution? 2

36. Have you ever felt the ground shake or heard such a news? Such sudden and strong movements can cause trees and buildings to fall and cause injuries to animals and human beings. A sudden strong shaking of the ground that causes damage to living beings and property is called an earthquake. Causes of Earthquakes: The earth's crust is not a single piece of land. It is broken up into many pieces. These pieces are called tectonic plates. Tectonic plates fit together like puzzle pieces. These pieces move very slowly — so slowly that we do not feel them move. But when there is a disturbance in the movements of these plates, the crust shakes and causes an earthquake

(i) What are tectonic plates? 1

(ii) Define Earthquake. 1

(iii) What are the effects of Earthquake? 2

Or

(iii) What is the cause of Earthquake? 2

SECTION – E (5 Marks)

37. What is Energy? Write five forms of energy and draw the diagram of any two form of energy.

Or

List advantages and disadvantages of friction

38. Explain the layers of Atmosphere with the help of diagram.

Or

Explain the importance of Atmosphere.

39. What is Air pollution? Write the effects of Air pollution

Or

What is Water pollution? Write the effects of Water pollution

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