



B.K. BIRLA CENTRE FOR EDUCATION

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



TERM-I EXAM 2025-26 SCIENCE(086)

Class: VIII

Date: 03.09.25

Admission no:

General Instructions:

(i) This question paper consists of 39 questions in 3 sections. Section A is Biology, Section B is Chemistry and Section C is Physics.

(ii) All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.





Time: 3 hours

Max Marks: 80

Roll no:

Section-A BIOLOGY		
1	Which of the following statements about weeds is NOT true? a) They obstruct the growth of the plant b) They can be poisonous c) They help crops grow well d) They compete with crops	1
2	Which of the following tools would a farmer NOT use to remove weeds from the fields? a) Hoe b) Trowel c) Seed drill d) Cultivator	1
3	The _____ are present in curd. a) lactobacilli b) <i>rhizobium</i> c) <i>E. coli</i> d) rhinovirus	1
4	In the process of making vinegar, bacteria added to _____ convert it into acetic acid. a) milk b) water c) alcohol d) curd	1
5	According to the Red Data Book, the hooded vulture belongs to which of these categories?	1

	a) Endangered b) Extinct c) Critically endangered d) Vulnerable	
6	Which category of species is not endangered right now but may become endangered in the near future? a) Extinct b) Vulnerable c) Endangered d) Near- threatened	1
7	Which is the first national park in India? a) Kaziranga b) Jim Corbett c) Ranthambore d) Sanjay Gandhi	1
The following two questions consist of two statements – Assertion (A) and Reason (R) . Answer these questions by selecting the appropriate option given below: A. Both A and R are true, and R is the correct explanation of A. B. Both A and R are true, and R is not the correct explanation of A. C. A is true but R is false. D. A is false but R is true.		
8	Assertion (A): Yeast is used in baking industry. Reason (R): Yeast produces carbon dioxide during respiration which makes the dough rise.	1
9	Assertion (A): Deforestation leads to soil erosion. Reason (R): Roots of trees bind the soil and prevent it from being washed away.	1
10	List the major groups of microorganisms.	2
11	<i>Students to attempt either option A or B.</i> A. Describe the way in which farmers select healthy seeds before sowing them. OR B. Give two examples of fertilisers.	2
12	(a) Give an example of an ecosystem. (b) Classify the following animals into endemic, extinct and threatened species: (i) Dodo bird (ii) Indian giant squirrel	2
13	Write the names of the given tools.	3

	  	
14	<p>Observe the picture and answer the given questions.</p> <p>(a) Identify the activity shown here.</p> <p>(b) How will this activity affect the biodiversity in that area?</p> <p>(c) Suggest a way by which the effect of this activity can be minimised.</p> 	3
15	<p>Read the following passage and answer the questions:</p> <p>A village near the forest observed drastic changes in climate, frequent floods, and poor crop yield over a few years. After investigation, it was found that large areas of the forest were cleared for agriculture and construction. As a result, the population of wild animals decreased, and some species were rarely seen.</p> <p>Questions:</p> <ol style="list-style-type: none"> 1. What is the term used for cutting down of forests on a large scale? 2. Name any two consequences of deforestation seen in the village. 3. What human activities led to the drastic changes in climate in the village? <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> 3. How did deforestation affect the frequency of floods in the village? 	4
16	Attempt either option A or B.	5

	<p>State the measures one can take to prevent communicable diseases.</p> <p style="text-align: center;">OR</p> <p>B. Observe the given image and answer the following questions:</p> <p>(a) Why is there a white layer deposited on the fruit?</p> <p>(b) Is the fruit shown in the image fit for consumption? Why or why not?</p> <p>(c) List the conditions that facilitated the growth of the white layer.</p>	
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Section-B Chemistry		
17	<p>What is the valency of the carbon?</p> <p>a) 1</p> <p>b) 2</p> <p>c) 4</p> <p>d) 3</p>	1
18	<p>Which of the following non-metals is lustrous?</p> <p>a) Chlorine</p> <p>b) Aluminium</p> <p>c) Gold</p> <p>d) Iodine</p>	1
19	<p>Which of the following is not a way to prevent corrosion?</p> <p>a) Coating with another metal</p> <p>b) Alloying</p> <p>c) Coating with kerosene</p> <p>d) Painting</p>	1
20	<p>What colour is the flame in the non-luminous zone of a candle?</p> <p>a) Yellow</p> <p>b) Greyish-black</p> <p>c) Blue</p> <p>d) Orange</p>	1
21	<p>A piece of magnesium is burned in the air to form a white solid. Which of the following gases does it react with?</p> <p>a) Carbon dioxide</p> <p>b) Water vapour</p> <p>c) Oxygen</p> <p>d) Nitrogen</p>	1
22	<p>Which of the following is NOT a combustible substance?</p> <p>a) Paper</p> <p>b) Wood</p> <p>c) Coal</p> <p>d) Stone</p>	1
23	<p>What is produced during incomplete combustion?</p> <p>a) Only heat and light</p>	1

	b) Pure oxygen c) Carbon monoxide and soot d) Only carbon dioxide and water	
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24	Assertion (A): White phosphorus is kept under water. Reason (R): Ignition temperature is the minimum temperature at which substance catches fire..	1
25	How rusting is different from corrosion?	2
26	<i>Attempt either option A or B.</i> (A) Explain Soda-acid fire extinguisher with suitable diagram.\ OR (B) Explain the characteristics of all the three zones of candle flame.	3
27	(a) Write the chemical formula of copper sulphate. (b) Name any metal that reacts violently with cold water. (c) What happens when metals react with acids.	3
28	<p>The air that we breathe today is more polluted than it was before. More factories more vehicles greater use of aerosols and sprays, increasing number of refrigerators and air conditioners that release CFC gases, have all contributed toward pollution. When certain chemicals from the smoke and fumes rise up into the air they mix with the water vapour in the clouds and make it acidic. When rain or snow falls from such polluted clouds, it is also acidic in nature. This acidic rain falls on the leaves of trees, on the fertile soil and also runs into lakes and rivers. The effects of the rain are disastrous. Trees slowly lose their leaves and die. Fertile soil turns acidic and damages the plants and crops. The fish and animals living in lakes or seas are killed. Even our drinking water can be affected. Many forests all over the world have suffered severe damage on account of acid rains. Before it is too late, we must try and put a stop to the millions of vehicles and chimneys pouring harmful fumes into the air.</p> <p>(i) Which gas is released by the refrigerators and air conditioners?</p> <p>(ii) What causes acid rain?</p> <p>(iii) What is fire triangle?</p> <p>OR</p> <p>(iii) How carbon dioxide is responsible for global warming?</p>	4

29	<p><i>Attempt either option A or B.</i></p> <p>(A) (i) Give any two uses of metals (ii) Write the valencies of Sodium and Aluminium. (iii) Name the property that allows materials to be beaten into sheets. (iv) Name the property that allows materials to be drawn into wires.</p> <p style="text-align: center;">OR</p> <p>(B) a) Give reasons for the following: (i) Silver earrings darken after a period of time. (ii) Copper vessels are coated with tin to increase their lifespan. b) Write the skeletal chemical equations for the following word equations: (i) Magnesium + Oxygen → Magnesium oxide (ii) Carbon + Oxygen → Carbon dioxide (iii) Hydrogen + Oxygen → Water</p>	5
Section-B Physics		
30	<p>What is the SI unit of friction?</p> <p>A. Joule</p> <p>B. Newton</p> <p>C. Pascal</p> <p>D. Metre</p>	1
31	<p>1. What type of friction acts on the wall of a house when we push it?</p> <p>A. Static friction</p> <p>B. Sliding friction</p> <p>C. Rolling friction</p> <p>D. Fluid friction</p>	1
<p>The following question consists of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below:</p> <p>A. Both A and R are true, and R is the correct explanation of A. B. Both A and R are true, and R is not the correct explanation of A. C. A is true but R is false. D. A is false but R is true.</p>		
32	<p>Assertion (A): The voice of children and adults are different in their voice.</p> <p>REASON: This happens because the frequency of the voice of a child is lower than the adult .</p>	1
33	Explain the effects of a force on an object with suitable examples.	2
34	<p>Differentiate between sliding and rolling friction.</p> <p style="text-align: center;">OR</p> <p>Explain the advantages of friction.</p>	2
35	Explain the types of non-contact forces using an example.	3

36	Explain how sound propagates in a medium in the form of compressions and rarefactions.	3
37	Describe the process of hearing in humans with the help of a well-labelled diagram.	3
38	<p>Case based study</p> <p>Friction is a force between two surfaces that are sliding, or trying to slide, across each other. Friction always works in the direction opposite to the direction in which the object is moving, or trying to move. It always slows a moving object down.</p> <p>Friction also produces heat. If you rub your hands together quickly, you will feel them get warmer. Friction can be a useful force because it prevents our shoes slipping on the pavement when we walk and stops car tyres skidding on the road. When you walk, friction is caused between the tread on shoes and the ground. This friction acts to grip the ground and prevent sliding. Sometimes we want to reduce friction. For example, we use oil to reduce the friction between the moving parts inside a car engine. In many machines, friction is reduced by using ball bearings. The reduced friction means there is less wear on the moving parts and less heat produced.</p> <p>i) When does friction arise? ii) Why should we apply oil on the hinges of the door? iii) Gymnasts apply some coarse substance on their hands. Why?</p> <p style="text-align: center;">OR</p> <p>iv) Explain why sportsmen use shoes with spikes.</p>	4
39	<p>(i) Explain briefly the factors that affect liquid pressure.</p> <p>(ii) Why must objects moving in fluid have special shapes?</p> <p>OR</p> <p>(i) What is pressure?</p> <p>(ii) why is it easier to walk on sand with flat shoes than with pointed heels.</p> <p>(iii) A sharp knife is preferred to a blunt one for chopping fruits and vegetables. Why?</p>	5

*****ALL THE BEST*****