

# KENDRIYA VIDYALAYA SANGATHAN, LUCKNOW REGION

## MID TERM EXAMINATION – 2023 – 24

### CLASS 8<sup>TH</sup>

### SUBJECT: SCIENCE

### SET – 1

Max Marks: 60

Time Allotted: 2½ Hrs.



#### Instructions:



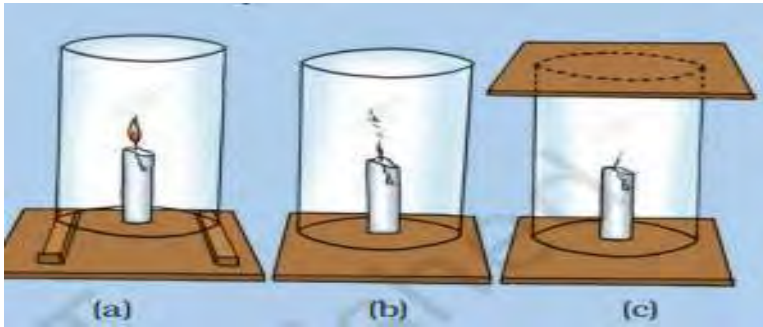
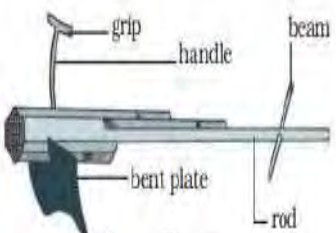

1. Section A comprises of question numbers 1 to 10. These are MCQ carrying one mark each. You have to select one most appropriate response out of the four provided options.
2. Section B comprises question numbers 11 to 20. These are VSAQs carrying two marks each.
3. Section C comprises question numbers 21 to 25. These are SAQs carrying three marks each.
4. Section D comprises question numbers 26 to 28. These are Case Study Based / Long answer type questions carrying five marks each.
5. All questions are Compulsory!

Q No.	Question	Marks
<b>Section – A: Multiple Choice Questions</b>		
1.	Which of following is not a fertilizer: A. Urea C. Potash  B. Cow-dung D. Super phosphate  <b>OR</b> The use of Cultivator saves: A. Labour B. Time C. Both A & B D. Money	1
2.	Virus reproduces: A. only outside the cells of the host organisms B. only inside the cells of the host organisms C. both inside and outside the cells of the host organisms D. none of these	1
3.	Which of the following gives us pollution free environment on burning: A. Wood C. Biogas B. Kerosene D. Cow dung cake	1
4.	Which of the following is inexhaustible natural resources: A. Coal B. Petroleum C. Minerals D. Sunlight	1
5.	The hottest zone of candle flame is: A. outermost zone C. middle zone B. innermost zone D. all of these	1
6.	In which of the following conditions combustion takes place: A. the presence of a combustible substance B. the presence of air with sufficient amount of oxygen C. the temperature of combustible substance should be more than its ignition temperature D. all the above conditions are necessary	1
7.	Flora means: A. wild plant species C. animals B. domesticated plant species D. both (a) and (b)	1

8.	Natural causes of deforestation include: A. forest fires C. electric current B. smoking cigarette D. cloud burst	1
9.	Knives, needles, saws are made sharp or pointed to: A. decrease pressure C. can't say B. increase pressure D. none of these <b>OR</b> All the objects present in universe are bounded with a force called _____. A. Electrostatic force C. Gravitational force B. Muscular force D. Contact force	1
10.	The easiest way to move a heavy wooden crate is to: A. place it on a trolley C. push it B. tie a rope on one end and pull D. none of these	1

**Section – B: Very Short Answer Type Questions**

11.	 <p align="center"><i>Roots of a leguminous plant with root nodules</i></p> <p>a) Name the bacteria that has a symbiotic relationship with above plant. b) What is the role of this bacteria.</p>	2												
12.	Match the organisms in Column A with their action in Column B: <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><b>Column A</b></td> <td style="text-align: center;"><b>Column B</b></td> </tr> <tr> <td>i. Lactobacillus</td> <td>a) causing AIDS</td> </tr> <tr> <td>ii. Yeast</td> <td>b) causing malaria</td> </tr> <tr> <td>iii. A protozoan</td> <td>c) baking of bread</td> </tr> <tr> <td>iv. A virus</td> <td>d) fixing nitrogen</td> </tr> <tr> <td></td> <td>e) setting of curd</td> </tr> </table>	<b>Column A</b>	<b>Column B</b>	i. Lactobacillus	a) causing AIDS	ii. Yeast	b) causing malaria	iii. A protozoan	c) baking of bread	iv. A virus	d) fixing nitrogen		e) setting of curd	2
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13.	 <p>a) What does the above figure illustrate? b) If you drill another similar hole at point X then the stream of water that will come out of this hole will have less pressure or more pressure as compared to the streams of water shown in the figure.</p>	2												
14.	Expand PCRA. What are its advices? Write any two. <b>OR</b> Why should we use coal and petroleum very judiciously?	2												

15.	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>A</b></p> </div> <div style="text-align: center;">  <p><b>B</b></p> </div> </div> <p>Identify the types of force in the given situation A and B also classify these forces as contact / non-contact force.</p>	2
16.	<p>State whether the following statements are true or false.</p> <p>a) Fossil fuels can be made in the laboratory.</p> <p>b) Coke is almost pure form of carbon.</p>	2
17.	<div style="text-align: center;">  </div> <p>a) Why does the flame flicker and give smoke in the figure 'b' above?</p> <p>b) Why does the flame go off in figure 'c' above?</p> <p style="text-align: center;"><b>OR</b></p> <p>Make a labelled diagram of a candle flame.</p>	2
18.	Give two examples each of situations that shows friction is a friend and a foe.	2
19.	<p>Explain why sportsmen use shoes with spikes.</p> <p style="text-align: center;"><b>OR</b></p> <p>Explain why objects moving in fluids must have special shape.</p>	2
20.	<p>What is red data book?</p> <p style="text-align: center;"><b>OR</b></p> <p>What are endangered species?</p>	2
<b>Section – C: Short Answer Type Questions</b>		
21.	<p>Compare manure and fertilizer (4 points). In your opinion which is better, give reason (2 points) for your answer.</p> <p style="text-align: center;"><b>OR</b></p> <p>What is weeding in agriculture? Write any two methods of weeding.</p>	3
22.	<p>Explain two modern methods of irrigation.</p> <p style="text-align: center;"><b>OR</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>A</b></p> </div> <div style="text-align: center;">  <p><b>B</b></p> </div> </div> <p>Name the above given agricultural tools A and B, also give their function.</p>	3

23.	Give three effects of force. <b>OR</b> a) Explain why shoulder bags are provided with broad straps and not thin straps. b) Define pressure. Give the mathematical expression for it.	3
24.	Describe how coal is formed. What is this process called?	3
25.	What are lubricants? Give two examples of lubricants along with the situation where they are used.	3

**Section – D: Case Study Based / Long Answer Type Questions**

26.	Write the causes (3 points) and consequences (7 points) of deforestation. <b>OR</b> <b>Read the passage and answer the question given below.</b> A great variety of plants and animals exist on earth. They are essential for the well-being and survival of mankind. To preserve biodiversity, to prevent extinction of endangered species, and to maintain ecological balance in nature, wildlife and forests should be conserved. Habitat is a place in environment where an organism lives. Today, a major threat to survival of these organisms is deforestation. We know that deforestation means clearing of forests and using that land for other purposes. Trees in the forest are cut for many purposes. Some natural causes of deforestation are forest fires and severe droughts. The answer to deforestation is reforestation. Reforestation is restocking of the destroyed forests by planting new trees. The planted trees should generally be of the same species which were found in that forest. We should plant at least as many trees as we cut. Reforestation can take place naturally also.	5
a)	A place in environment where an organism lives is _____. A. Home                      B. Resort                      C. Habitat                      D. Reservoir	
b)	Wildlife and forests should be conserved: A. To preserve biodiversity. B. To prevent extinction of endangered species. C. Maintain ecological balance in nature. D. All of the above.	
c)	Deforestation takes place by: A. Human activities                      B. By natural calamities C. Both a and b                      D. None of these	
d)	Restocking of the destroyed forests by planting new trees is called: A. Deforestation                      B. Afforestation C. Reforestation                      D. None of these	
e)	State whether the following statement is true or false: <i>There is no biodiversity in the sea.</i>	
27.	<b>Read the passage carefully and attempt the questions given below.</b> A chemical process in which a substance reacts with oxygen to give off heat is called combustion. The substance that undergoes combustion is said to be combustible. It is also called a fuel. The fuel may be solid, liquid or gas. Sometimes, light is also given off during combustion, either as a flame or as a glow. The lowest temperature at which a substance catches fire is called its ignition temperature. The substances which have very low ignition temperature and can easily catch fire with a flame are called inflammable substances. Examples of inflammable substances are petrol, alcohol, Liquefied Petroleum Gas (LPG)	5
a)	What are combustible substances? A. Substance that undergoes combustion B. Substance reacts with ozone C. Substance that glows D. All of these	
b)	Fuels can be: A. Solids only                      B. Liquids only C. Gases only                      D. All of these	
c)	What is ignition temperature? A. Lowest temperature at which a substance catches fire.	

