

DELHI PUBLIC SCHOOL JAMMU
SESSION (2024-25)
FINAL EXAMINATION
SAMPLE PAPER

Class: VIII

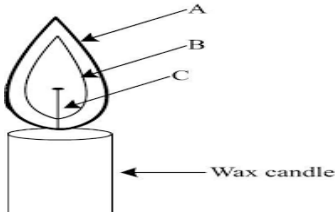
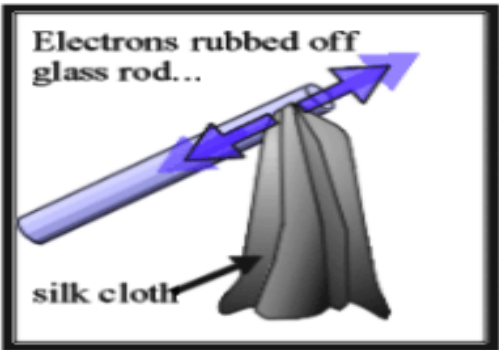
Subject: SCIENCE

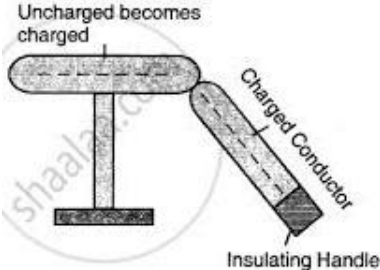
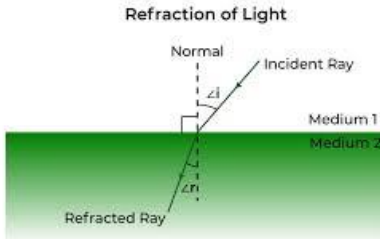
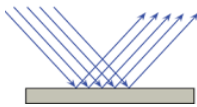
Time: 3 hours

Max Marks: 80

General Instructions:

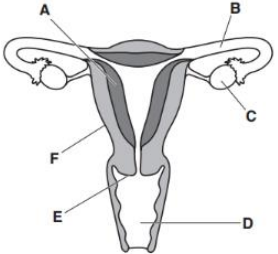
- All the questions are compulsory
- The question paper has 5 sections A, B, C, D and E
- Section A has 20 Multiple Choice Questions (MCQs) carrying 1 mark each
- Section B has 6 Short Answer-I (SA-I) type questions carrying 2 marks each
- Section C has 7 Short Answer-II (SA-II) type questions carrying 3 marks each (50-80 words)
- Section D has 3 Long Answer (L(A) type questions carrying 5 marks each (80-120 words)
- Section E has 3 Case-Study based questions (4 marks each) with subparts
- Few internal choices has been provided

SN	Section – A Multiple Choice Questions	M ar ks
1	Which of the following is a non-renewable source of energy? (a) Coal (b) Wind energy (c) Solar energy (d) Hydropower	1
2	Which of the following is other name of coal and petroleum (a) Fossil fuel (b) Bio diesel (c) Gasoline (d) Smokeless fuel	1
3	Identify the name of the zone A of the candle flame:  (a) Middle zone (b) Outermost zone (c) Innermost zone (d) None of these	1
4	Which coal is regarded as best variety of coal _____ (a) Anthracite (b) Bituminous (c) Lignite (d) Peat	1
5	In the activity given below, What kind of charge will be developed on the glass rod:  (a) Negative (b) No charge (c) Positive (d) Can be either (a) or (c)	1
6	In an experiment, burning of 3 Kg of fuel produced 1,95,000 kJ of heat. The calorific value of fuel is: (a) 65000 kJ/Kg (b) 55000 kJ/Kg (c) 45000 kJ/Kg (d) 35000 kJ/Kg	1
7	Global warming affects: (a) The monsoon rains (b) Seasonal patterns (c) Excessive melting of polar ice (d) All of these	1
8	Which of the following is NOT an example of a national park in India? (a) Jim Corbett National Park (b) Kaziranga National Park (c) Gir National Park (d) Sahara Desert	1

9	<p>What is depicted in the picture below:</p>  <p>(a) Charging by Friction (b) Charging by Induction (c) Charging by Conduction (d) None of these</p>	1
10	<p>Which of the following projects was launched in India to ensure the survival and maintenance of tigers?</p> <p>(a) Project Wildlife (b) Project Fauna (c) Project Forest (d) Project Tiger</p>	1
11	<p>Which of the following is mode of reproduction in Amoeba?</p> <p>(a) Budding (b) Binary fission (c) Fragmentation (d) Sporogenesis</p>	1
12	<p>If an object oscillates 40 times in one second, which of the following is the frequency of the object?</p> <p>(a) 0.4 Hz (b) 0.04 Hz (c) 0.004 Hz (d) 40.00 Hz</p>	1
13	<p>There is a difference in the voice of men, women and children because of the:</p> <p>(a) Difference in lungs (b) Difference in vocal cords (c) Difference in wind pipe (d) All of these</p>	1
14	<p>See the diagram and answer: Which of the following statements is true?</p>  <p>a) Light bends towards normal in a rarer medium (b) Light travels faster in water than in air c) Light bends towards normal when moving to a denser medium (d) None of these</p>	1
15	<p>The following figure shows which type of reflection?</p>  <p>(a) Regular reflection (b) Diffused reflection (c) Parallel reflection (d) None of these</p>	1
16	<p>When an ebonite rod is rubbed with fur, it becomes _____ charged</p> <p>(a) Negatively (b) Positively (c) Neutral (d) None of these</p>	1
	<p>(Q17-Q20) Assertion and Reason Based Questions</p> <p>In the following questions, a statement of assertion ((A) is followed by a statement of reason (R) Mark the correct choice as:</p> <p>a Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) b Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A) c Assertion (A) is true but reason (R) is false d Assertion (A) is false but reason (R) is true</p>	
17	<p>Assertion (A): Acid rains are caused by emission of sulphur dioxide and nitrogen oxide. Reason (R): Acid rain is dangerous for the earth.</p>	1
18	<p>Assertion: Deforestation causes habitat loss for many species. Reason: Deforestation reduces the oxygen supply in the environment.</p>	1
19	<p>Assertion: Sexual reproduction requires two parents. Reason: In sexual reproduction, the offspring inherits traits from both parents.</p>	1
20	<p>Assertion (A): It is safer to stand under a tall tree during lightening. Reason (R): Doing so make you the target for the lightening</p>	1

	Section-B	
21	What are natural resources? Name any two types of natural resources.	2
22	What is combustion? What are the conditions necessary for combustion.	2
23	What is Red Data book? Who publishes it? OR What are exotic species. How does it effect the native species, explain with an example.	2
24	Differentiate between external and internal fertilization. (State an example for each)	2
25	What is noise? Give any two effects of noise pollution.	2
26	Write any four uses of plain mirror.	2
	Section-C	
27	What is destructive distillation of coal? List any four uses of coal.	3
28	Explain the different types of combustion in detail. (State an example of each). OR What is a fire extinguisher? Explain any two types of fire extinguisher.	3
29	What are the different types of protected area? Explain in brief about each with an example.	3
30	Define metamorphosis. Explain this phenomenon with an example of reproductive cycle of frog.	3
31	Make a comparative list of the three layers of earth.	3
32	Define Echo. State its essential conditions. Name one of its application.	3
33	What is multiple reflection? What will be the angle between two mirrors if number of image formed are 11?	3
	Section-D	
34	(a) What is lightning? How does it strike a tall tree? (b) Give any four safety measures to be taken during lightning? OR (a) What is an electroscope? Who invented it? (b) Explain the structure and working of a gold-leaf electroscope in brief.	5
35	(a) Discuss the three characteristics of sound in detail. (b) Draw the structure of human ear. OR (a) Define: (i) Frequency (ii) Time period (b) Draw and explain in brief the structure of a human ear.	5
36	(a) Discuss in detail the structure of a human eye. (b) Explain how iris regulates the amount of light entering the eye. OR (a) With the help of diagram show the image formation in a plane mirror of: (i) Point source object (ii) Extended source object (b) Define the property which has enabled the concept of motion pictures.	5

	Section-E Case Study based Questions	
37	<u>Read the followings paragraph and answer the following questions</u> A group of students visited a wildlife sanctuary as part of their school trip They observed that the sanctuary had a dense forest with a variety of trees, birds, and animals A forest officer explained how deforestation and habitat destruction are leading to a decline in biodiversity He also informed them about various conservation efforts like afforestation, reforestation, and setting up national parks and biosphere reserves The students noticed that some areas of the forest had been cleared, and local people were using the land for farming and construction They also learned about endangered species and how poaching and illegal	4

	<p>hunting threaten wildlife The officer emphasized the importance of laws like the Wildlife Protection Act and international efforts such as CITES to protect endangered species</p> <p>a) Why is deforestation harmful to biodiversity? (1)</p> <p>(i) It increases the number of plant species (ii) It provides more space for animal habitats</p> <p>(ii) It leads to the destruction of habitats and loss of species (iv) It has no impact on biodiversity</p> <p>b) Which conservation method helps restore forests in deforested areas? (1)</p> <p>(i) Poaching (ii) Reforestation (iii) Overgrazing (iv) Mining</p> <p>c) How does the Wildlife Protection Act help in conservation? (2)</p>	
38	<p>Observe the diagram given below and answer the questions that follows:</p>  <p>(i) Part labelled as “D” is _____ (1)</p> <p>(a) Placenta (b) Cervix (c) Vas deferens (d) Vagina</p> <p>(ii) The main hormones secreted by the ovaries are _____ (1)</p> <p>(a) Progesterone (b) Testosterone (c) Insulin (d) Growth hormone</p> <p>(iii) Why do humans generally give birth to only one baby at a time? (2)</p>	4
39	<p><u>Read the following paragraph and answer the following questions:</u></p> <p>Rahul and his family were watching the news when they saw a report about an earthquake that had struck a nearby city. The news showed damaged buildings, cracked roads, and rescue teams helping people. Rahul's father explained that earthquakes are caused by sudden movements of tectonic plates under the Earth's surface. He also mentioned that people should follow safety measures like taking cover under sturdy furniture and staying away from windows during an earthquake.</p> <p>A few days later, Rahul learned about lightning in his science class. His teacher explained that lightning occurs due to the accumulation of electric charges in clouds. She advised the students to avoid open fields and tall trees during thunderstorms.</p> <p>(i) What is the primary cause of an earthquake? (1)</p> <p>(a) Heavy rainfall (b) Movement of tectonic plates (c) Volcanic eruptions only (d) Strong winds</p> <p>(ii) Which safety measure should be followed during a thunderstorm? (1)</p> <p>(a) Standing under a tall tree (b) Staying in an open field (c) Avoiding open spaces (d) Staying near electric poles</p> <p>(iii) Why should we not use electrical appliances during a thunderstorm? (2)</p>	4

Reflection Box						
1 How confident do you feel about your understanding of the topics covered in this assessment?	(A) Very Confident		(B) Somewhat Confident		(C) Not Confident	
2 How well do you think you prepared for this assessment?	(A) Very Well		(B) Somewhat Well		(C) Not Well	
3 What do you think you could have done differently to improve your performance on this assessment?	(A) Studied thoroughly		(B) Practiced more		(C) Asked for help from the teachers or peers	