

Vikas Bharati Public School
Sample paper (Session 2025-26)
CLASS: VIII
Subject: Science

Time : 2hours 30minutes

M.M : 60

Note:

1. This question paper contains 4 printed pages and 22 questions.
2. All questions are compulsory.
3. Over attempted questions will not be evaluated.
4. For multiple choice questions, both the option and the statement must be written.

SECTION-A

Note: Choose the correct option for the given statements:

1.	a)	For a given force, what will be the effect of increase in area of contact on pressure? (i) Pressure will increase (ii) Pressure will decrease (iii) Pressure remains the same (iv) Pressure becomes three times	1
	b)	Distilled water is a poor conductor of electricity because it lacks free ions. Which of the following methods best demonstrates how to make distilled water conduct electricity? (i) By dissolving alcohol in it (ii) By dissolving sugar in it (iii) By dissolving salt in it (iv) Both (i) and (ii)	1
	c)	Coal is an important fossil fuel that yields several useful by-products when processed. Identify, which of the following substances is NOT obtained from coal? (i) Coke (ii) Coal-tar (iii) Bitumen (iv) Coal-gas	1
	d)	Which of the following parts in human male body produces sperms? (i) Penis (ii) Testes (iii) Sperm duct (iv) Seminal vesicles	1
	e)	The gradual transformation of fertile land into desert is called : (i) Deforestation (ii) Desertification (iii) Reforestation (iv) Afforestation	1
	f)	Leguminous crops are important in agriculture because they enrich the soil with nitrogen. Identify, which of the following is a leguminous crop? (i) Pea (ii) Gram (iii) Pulses (iv) All of these	1
	g)	Athletes often wear spike shoes during running events to increase: (i) Frictional force (ii) Muscular force (iii) Gravitational force (iv) Electrostatic force	1
	h)	Objects can acquire electric charge through different physical processes. Which of these methods would be suitable to charge an object? (i) Induction (ii) Friction (iii) Conduction (iv) All of these	1
	i)	When a candle burn, it produces a flame depending on the availability of oxygen. The colour of the luminous zone is: (i) Yellow (ii) Blue (iii) Black (iv) Green	1
	j)	Which of the following disease is NOT caused by bacteria? (i) Tuberculosis (ii) Polio (iii) Cholera (iv) Typhoid	1

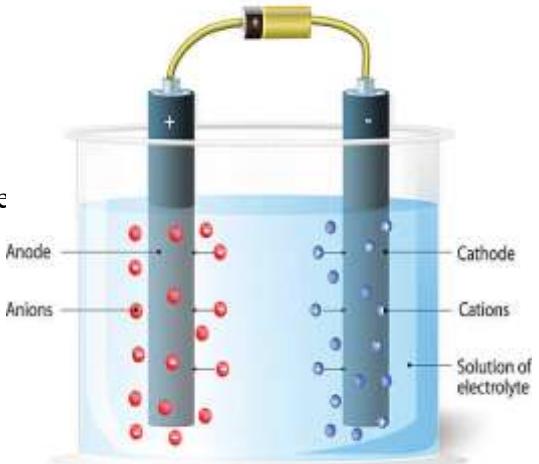
2.	<p>Fill in the blanks with appropriate word for the given statements:</p> <p>(i) The _____ is an agricultural practice involving removal of unwanted plants that grow along with the crop.</p> <p>(ii) The endangered species are listed in _____ book.</p>	2
3.	<p>Complete the following analogy.</p> <p>(i) _____ : bright light :: Rods : dim light</p> <p>(ii) Adrenalin : Adrenalin :: _____ : Insulin</p>	2
4.	<p>Find the error and rewrite the correct statements:</p> <p>(i) Citrus Canker disease is caused by protozoa.</p> <p>(ii) The maximum temperature at which a substance catches fire is called its ignition temperature.</p>	2
5.	<p>Give one word answer:</p> <p>(i) The supply of water to agricultural fields at regular intervals</p> <p>(ii) Comma- shaped bacteria</p> <p>(iii) Variety of plants, animals and micro-organisms found in an area.</p> <p>(iv) The glands which do not have ducts.</p>	4
	<u>SECTION-B</u>	
	<p><u>Note: Attempt any SIX parts from Section-B</u></p>	
6.	Explain any four characteristics that make a fuel ideal for practical use.	2
7.	Differentiate between oviparous and viviparous animals.	2
8.	Which phenomenon is responsible for creating the illusion of motion of objects? Define the phenomenon.	2
9.	Machines and engines often involve moving parts that come into contact with each other. To increase the efficiency of machine, certain substances are used between moving parts. Name the substances and how do they work to prevent wear and tear and to improve the efficiency?	2
10.	List the tips adopted by PCRA to save petrol / diesel while driving.	2
11.	<p>Give reason:</p> <p>(a) A charged body loses its charge when touched with hand.</p> <p>(b) One should not touch electrical wires or metallic poles during lightning.</p>	1+1
12.	<p>Which effect of force is observed in the following cases:</p> <p>(i) Squeezing a lemon</p> <p>(ii) Taking a penalty kick in football</p> <p>(iii) A fielder stopping a ball while playing cricket</p> <p>(iv) A hockey player flicking a ball</p>	2
	<u>SECTION-C</u>	

Note: Attempt any FOUR parts from Section-C.

13.	<p>(i) Give reason: It is difficult to walk on a wet muddy road. (ii) Identify the figure and explain its use.</p>		1+2
14.	<p>(i) What happens if the egg released by ovary doesn't get fertilised? (ii) Differentiate between menarche and menopause.</p>		2+1
15.	<p>(i) Mention the vibrating part of the following instruments: a) Sitar b) Horn (ii) How is pitch related to frequency? (iii) What is the unit of loudness and what sounds can become physically painful?</p>		1+1+1
16.	Draw a labelled diagram to illustrate how chromosomes influence whether the offspring is male or female. Explain Sex determination in human beings.		3
17.	<p>(i) Differentiate between Sliding and Rolling friction. (ii) Give reason: A car with worn out tyres is likely to skid.</p>		2+1

SECTION-D

Note: Attempt any THREE parts from Section-D.

18.	<p>(i) Observe the image showing electrolysis of and answer the following questions: a) Name the material which is used to make electrodes. b) Name the gas evolved at anode. c) Name the gas evolved at cathode. d) Which effect of current is illustrated in the Image? (ii) Give reason: a) It is not economical to make the entire object from chromium metal. b) The object to be electroplated is always attached to the cathode.</p>		ELECTROLYSIS 2+2
19.	<p>(i) Define: Foetus (ii) How are test tube babies born? Why is the term 'test tube babies' misleading?</p>		1+3
20.	<p>(i) The buzzing of sound from a mosquito is produced when it vibrates its wings at an average rate of 1000 vibrations per second. What is the time period of the vibrations of its wings? (ii) Write any two causes of noise pollution and two harmful effects of noise pollution.</p>		2+2

21.	<p>(i) Name a device used to detect the charge on an object and draw its labelled diagram.</p> <p>(ii) Why does a charged comb attracts bits of paper but a metallic comb does not?</p>	3+1
	<u>SECTION-E</u>	
22.	<p>Read the passage given below and answer the questions related to them:</p> <p>A jeweller wants to make ornaments that look like gold but cost less. To achieve this, he uses electroplating to coat silver ornaments with a thin layer of gold. This process not only gives the ornaments the appearance of pure gold but also makes them more attractive to customers who cannot afford solid gold jewellery. Electroplating ensures that the ornaments retain the shine and luster of gold while keeping the overall cost low.</p> <p>(i) Why is electroplating preferred over making ornaments entirely of gold?</p> <p>(ii) Which material should be connected to the positive terminal of the battery in this process? Why?</p> <p>(iii) Why is iron electroplated with zinc or other metals?</p> <p>(iv) In the electroplating factories, the disposal of used conducting solution is a major concern. Why?</p>	4