

Vikas Bharati Public School
Sample paper (Session 2024-25)
CLASS: VIII
Subject: Science

Time : 2hours 30minutes

M.M : 60

- Note:** 1. This question paper contains 3 printed pages and 6 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.

<u>SECTION-A</u>			
<u>Note:</u> Choose the correct option for the given statements:			
1.	a)	The practice in which farmers leave the field uncultivated in between two crops is called: (i) Ploughing (ii) Sowing (iii) Fallow field (iv) Harvesting	1
	b)	Which of the following is used as aviation fuel in jet planes? (i) Fuel oil (ii) Paraffin wax (iii) Bitumen (iv) Lubricating Oil	1
	c)	Which of the following is not a natural phenomenon? (i) Earthquake (ii) Cyclone (iii) Lightning (iv) Nuclear Explosion	1
	d)	During electrolysis, the cations present in the electrolyte move towards the: (i) anode (ii) cathode (iii) bottom of container (iv) Walls of container	1
	e)	A group of organisms that have common characteristics and can interbreed is called: (i) Extinct (ii) Endangered (iii) Species (iv) Biodiversity	1
	f)	The bacterium 'Bacillus anthracis' causes this disease: (i) Tuberculosis (ii) Anthrax (iii) Rust of wheat (iv) Polio	1
	g)	Fertilisation of egg in case of human takes place in the: (i) Ovary (ii) Uterus (iii) Vagina (iv) Oviduct	1
	h)	Burning of LPG is an example of a _____ combustion. (i) Rapid (ii) Slow (iii) Spontaneous (iv) Explosion	1
	i)	A force can change: (i) Direction (ii) Speed (iii) Shape (iv) All of these	1
	j)	Friction can be reduced by: (i) Making surfaces rough (ii) Making surfaces smooth (iii) Increasing mass (iv) All of these	1
2.	a)	Choose the odd one out and give reason for the same: (i) Insulin, Adrenalin, Pituitary, Thyroxine (ii) Plane mirror, Cardboard surface, Polished wooden table, Shiny metal sheet	2
	b)	Find the error and rewrite the correct statements: (i) The vibrating part in a flute is its stretched strings. (ii) The substances produced by the body in response to the entry of a pathogen are known as antibiotics.	2

	<p>c) Fill in the blanks with appropriate words for the given statements:</p> <p>(i) The illegal hunting of animals for commercial use is called _____.</p> <p>(ii) Removal of weeds is known as _____.</p>	2															
	<p>d) Give one word answers:</p> <p>(i) The harvest festival of Punjab.</p> <p>(ii) The Scientist who discovered small pox vaccine</p> <p>(iii) The process of conversion of fertile lands into deserts</p> <p>(iv) The type of lens that enables us to see the beautiful world around us</p>	4															
	<u>SECTION-B</u>																
	<u>Note:</u> Attempt any SIX parts from Section-B																
3.	<p>a) (i) 'Coal, petroleum and natural gas cannot be prepared in a laboratory.' Justify.</p> <p>(ii) How is coke different from coal?</p>	1+1															
	b) Why is recycling of paper important? (give 4 points).	2															
	<p>c) Give reasons:</p> <p>(i) We cover a person with a blanket if the clothes of a person catch fire.</p> <p>(ii) A matchstick does not catch fire on its own at room temperature.</p>	1+1															
	d) Differentiate between a zygote and foetus.	2															
	<p>e) (i) Worn out tyres are discarded.</p> <p>(ii) The soles of shoes are grooved.</p>	1+1															
	<p>f) (i) What is the frequency of the sound when the vocal cords are loose and thick?</p> <p>(ii) Sound cannot be heard on moon. Why?</p>	1+1															
	<p>g) Given below are the list of the activities that require the use of the force. Write 'Push' or 'Pull' depending upon the kind of force required to do the activity.</p> <p>(i) Lifting weight</p> <p>(ii) Closing the drawer</p> <p>(iii) Opening a door</p> <p>(iv) Kicking a ball</p>	2															
	<u>SECTION-C</u>																
	<u>Note:</u> Attempt any FOUR parts from Section-C.																
4.	<p>a) (i) List the characteristics of an image formed by a plane mirror. (any 4)</p> <p>(ii) We are not able to see in the dark, why?</p>	2+1															
	<p>b) The table given below lists the amount of heat produced on burning different fuels.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Fuel</th> <th>Heat energy produced (kJ)</th> <th>Amount of fuel taken (kg)</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>20000</td> <td>1</td> </tr> <tr> <td>Q</td> <td>30000</td> <td>2</td> </tr> <tr> <td>R</td> <td>50000</td> <td>2</td> </tr> <tr> <td>S</td> <td>40000</td> <td>1</td> </tr> </tbody> </table> <p>(i) Which fuel has the maximum calorific value?</p> <p>(ii) List the characteristics of an ideal fuel. (any 4)</p>	Fuel	Heat energy produced (kJ)	Amount of fuel taken (kg)	P	20000	1	Q	30000	2	R	50000	2	S	40000	1	1+2
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	c)	(i) Differentiate between rolling and sliding friction. (ii) Give an example from daily life where friction results in producing heat.	2+1
	d)	(i) Differentiate between unisexual and bisexual organisms. (ii) What is puberty?	2+1
	e)	(i) A sound produces vibrations that are irregular and non-periodic. What kind of sound is it? What can be its effect? (any three). (ii) What do you understand by audible range? Can we hear sound waves having frequencies of about 200000Hz. Why?	2+1
		<u>SECTION-D</u>	
		<u>Note: Attempt any THREE parts from Section-D.</u>	
5.	a)	(i) Draw the Labelled diagram to show the electroplating of copper on iron rod? (ii) Most bathroom fittings are chromium plated. Why are these parts not made from chromium itself? (iii) During electroplating of copper, a few drops of dilute sulphuric acid is added to the conducting solution, give reason.	2+1+1
	b)	(i) Give reason: (a) A metallic spoon rubbed with dry hair does not get charged. (b) It is advised to switch off TV during thunderstorm. (ii) Draw a labelled diagram of an electroscope.	2+2
	c)	(i) A force of 100 N can produce a pressure of 100000 Pa. Calculate the area in cm ² on which the force shall act to exert the pressure. (ii) A person wants to skate using a skateboard. Which two objects should interact in order to move the skate? (iii) What happens to the speed of the moving object when it is pushed in the direction of its motion?	2+1+1
	d)	(i) How does water help in extinguishing fire? (2 points) (ii) CO ₂ is an excellent fire extinguisher for fires involving electrical equipments and inflammable materials like petrol, diesel. Justify. (2 points)	2+2
		<u>SECTION-E</u>	
6.		Read the passage given below and answer the questions related to them: During Adolescence, the youngsters are often mislead and to overcome stress and other emotions, they sometimes get used of taking drugs which harm their body in the long run as the drugs are addictive. The drugs ruin health and happiness. These drugs can sometimes be responsible for spreading diseases like AIDS. (i) Define: Drug Abuse. (ii) How do drugs affect the body? (iii) What is the full form of AIDS. Name the micro-organism responsible for the disease. (iv) What are the different ways by which AIDS spread. (any two).	4