

Class:VIII ; Subject: SCIENCE (086)

Maximum Marks: 60

General Instructions:

1. All questions are compulsory.
2. This question paper consist Section A, B, C, D and E. Marks are indicated against each question.
3. Section A (Q.No.1,I-XII) consists of multiple choice questions.
4. Section B (Q.No.2-5) consists of very short answers questions of 2 marks each.
5. Section C (Q.No.6-8) consists of short answer questions of 3 marks each.
6. Section D (Q.No.9-11) consists of long answer questions of 5 marks each.
7. Section E (Q.No.12-15) consists of case based or source based questions having three subparts each.
8. There is no overall choice. However, internal choice is given in some of the questions. Only one of the choices in such questions has to be attempted.

Section A		
Q.No.	Question	Marks
1.	From Question I-XII , choose the correct option.	
I	Which microorganism is responsible for converting milk into curd? A) <i>Rhizobium</i> B) <i>Lactobacillus</i> C) <i>Amoeba</i> D) Yeast	1
II	Bread or idli dough rises because of: A) Heat B) Grinding C) Growth of yeast cells D) Kneading	1
III	The _____ in plant cells helps in the process of photosynthesis. A)Cell wall B)Cytoplasm C)Chloroplast D)Nucleus	1
IV	Which of the following is a communicable disease? A) Diabetes B) Chicken pox C) Cancer D) High Blood Pressure	1
V	In a dry cell, the positive terminal is the metallic tip on top of the carbon rod. Which is the negative terminal of the cell? A) Bottom of the carbon rod B) Bottom of the zinc container C) The paste of chemicals inside the cell D) Carbon rod just below the metallic tip	1
VI	The strength of the electromagnet depends on: A) The nature of the metal used in the coil B) Number of turns in the coil	1

	C) The strength of the current flowing through the coil D) All of these	
VII	During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is A) force of gravity B) electrostatic force C) force of friction D) magnetic force	1
VIII	SI unit of pressure is: A) newton B) newton/km C) pascal D) kg/hr	1
IX	High-speed winds can A) blow off roofs B) create a low-pressure area C) result in lower air pressure above the roofs of the houses compared to air pressure below the roofs D) all of the above	1
X	Lightning can occur as opposite charges collide A) within a cloud B) between clouds C) between clouds and the ground D) all of the above	1
XI	When sugar dissolves in water, it shows: A) Sugar disappears B) Particles are stationary C) Matter is continuous D) Matter is made up of particles	1
XII	Which of these is NOT a form of matter? A) Solid B) Liquid C) Energy D) Gas	1
Section B		
2.	<u>Attempt either (A) or (B)</u> A. Explain why viruses are considered different from other microorganisms OR B. Name a useful microbe and discuss one way in which it is useful to humans.	2
3.	Describe two ways to prevent the spread of the influenza/flu.	2
4.	What happens to a magnetic compass needle when placed near a current-carrying wire?	2
5.	Why does a current-carrying wire get warm?	2
Section C		
6.	<u>Attempt either (A) or (B)</u> A. Discuss two differences between communicable and non-	3

	communicable diseases with one example each. OR B List out three ways how you can prevent yourself from infectious diseases.																	
7.	Design an activity to demonstrate the movement of gas particles that can not be seen with naked eyes.	3																
8.	<u>Attempt either (A) or (B)</u> A.Why does water spurt out like a fountain from leaking joints or holes in water pipes? OR B.Can the shape or size of the straps make a difference, provided both bags are equally heavy?	3																
Section D																		
9.	Complete the given sentences (Choose from the options given) (Cytoplasm, Microscope, Cell wall, Amoeba, Cell) i. Microorganisms can be seen with the help of a -----. ii. ----- is a unicellular microorganism. iii. The structural and functional unit of life is ----- . iv.The ----- provides structural support and shape to plant cells. v. ----- is a jelly-like substance found inside cells that contains all the cell organelles.	5																
10.	<table><tr><td colspan="2">Match the Columns</td></tr><tr><td>Column I</td><td>Column II</td></tr><tr><td>(a) newton</td><td>(i) Non-contact force</td></tr><tr><td>(b) Magnetic force</td><td>(ii) SI Unit of force</td></tr><tr><td>(c) 1 kilogram</td><td>(iii) Net force acting on a body</td></tr><tr><td>(d) Resultant force</td><td>(iv) 9.8 N</td></tr><tr><td>(e) Frictional force</td><td>(v) Contact force</td></tr><tr><td></td><td>(vi) 100 gm</td></tr></table>	Match the Columns		Column I	Column II	(a) newton	(i) Non-contact force	(b) Magnetic force	(ii) SI Unit of force	(c) 1 kilogram	(iii) Net force acting on a body	(d) Resultant force	(iv) 9.8 N	(e) Frictional force	(v) Contact force		(vi) 100 gm	5
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11.	<u>Attempt either (I) or (II)</u> (I). a) State in which of the following examples- a piece of wood, water and a light gas, is the: 1. Inter- particle space maximum? 2. Inter-particle attraction maximum? 3. Energy possessed by the particles of the matter maximum? b) Which two factors determines the different states of matter? OR (II). a) State which of the three states of matter- solids, liquids or gases has (i) No definite volume (ii) A definite shape (iii) High density b) What happens to inter particle forces when a solid melts?	(3+2) =5
Section E		
12.	Ramesh feels tired and thirsty all the time. He is losing weight also. He visits a doctor. (a) Which disease might the doctor suspect here? (b) Is this a communicable or non- communicable disease ? <u>Attempt either (c) or (d).</u> (c) Suggest two lifestyle changes that can help an adolescent manage this disease effectively. OR (d) State two main causes of this disease?	4
13.	Seema is trying to heat water using an electric stove. She notices that the coil on the stove, called the heating element, glows red hot when she switches it on. (a) Why does the heating element glow red hot? (b) The heating element of stove is made up of which material? <u>Attempt either (c) or (d).</u> (c) State the conversion of energy taking place in electric heater. OR (d) Give two examples of appliances other than a stove that uses a heating element.	4
14.	In 2020, We experienced the cyclone Amphan, it had wind speeds of over 200 kmph and affected the whole West Bengal and Odisha. An effective hazard occurred in mankind.	4

	(a) What is a cyclone ? (b) Name the instrument used to measure wind speed. <u>Attempt either (c) or (d).</u> (c) Mention two safety measures people should follow during a cyclone. OR (d) List two technologies used by the Meteorological Department to predict cyclones.	
15.	Sana and Priya were helping their father rearrange the furniture in their living room. As they pushed a heavy sofa across the floor, they noticed it was much harder to move than the lighter chairs. Sana tried to push the sofa alone but found it difficult, so Priya suggested they both push it together in the same direction. They noticed the sofa moved much more easily. (a) Why did Sana find it easier to move the sofa when both she and Priya pushed it together in the same direction? (b) What type of force were Sana and Priya applying to move the sofa? <u>Attempt either (c) or (d).</u> (c) Which force opposes the motion of the sofa as it moves across the floor? State any one effect of this force. OR (d) What is the SI unit of weight? How the weight of a body is different from the mass of that body? Write any one point.	4