D.A.V. PUBLIC SCHOOL, THANE,
2021-2022
PERIODIC TEST- 2
SCIENCE AND TECHNOLOGY

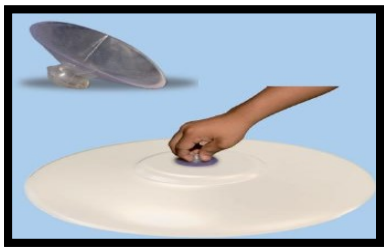
DATE: 27/09/2021 **TIME: 2 Hours**

STD: VIII **MAXIMUM MARKS: 40**

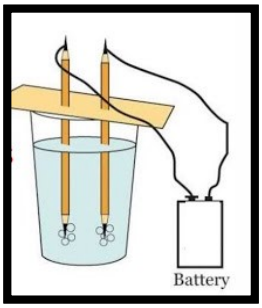
General Instructions:

1. **This question paper has 17 questions in all. All questions are compulsory.**
2. **There is no overall choice. However, internal choices have been provided in one question of 3 marks and two questions of 5 marks each.**
3. **The question paper has 4 sections: Sections A, B,C and D respectively**
   Section A has 9 questions in all carrying a total of 15 marks.
   Section B has 3 questions in all that are short answer type and carry 2 marks each.
   Section C has 3 questions in all that are short answer type and carry 3 marks each.
   Section D has 2 questions in all that are long answer type and carry 5 marks each.

SECTION A		**MARKS**
Q.1	State the meaning of the term Electrorefining of metals.	**1**
Q.2	Which out of the two, water or carbon dioxide fire extinguisher, will you use to extinguish a fire caused by oil or gas.	**1**
Q.3	Define static friction.	**1**
Q.4	What is slow combustion?	**1**
Q.5	The central yellow mass is the yolk of the hen's egg. What is the transparent white jelly-like fluid called as?	**1**
Q.6	**For question numbers 6 and 7, two statements are given-one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:** **(i) Both A and R are true, and R is correct explanation of the assertion.** **(ii) Both A and R are true, and R is not the correct explanation of the assertion.** **(iii) A is true but R is false.** **(iv) A is false but R is true.** **Assertion :** Cell wall is generally absent in animal cell. **Reason :** Animal cells are covered by a cell membrane.	**1**

Q.7	**Assertion :** We throw a ball upwards; the ball goes up in the air but then falls down again. **Reason :** Ball goes upwards due to gravitational force and then falls due to muscular force.	**1**
Q.8	Take a good quality rubber sucker. It looks like a small rubber cup as shown in the figure. Press it hard on a smooth plane surface. When you press the sucker, most of the air between its cup and the surface escapes out and the sucker sticks to the surface.  a) What makes the sucker stick to the surface? b) How much force needs to be applied if we wish to pull the sucker off the surface? c) Give names of two devices (manmade) that works on this phenomenon. d) Does this phenomenon increase or decrease as we move towards higher altitudes?	**4**
Q.9	Coal is a complex mixture of carbon, hydrogen and oxygen compounds. Some nitrogen, sulphur and phosphorus compounds are also present in it. It is found in coal mines deep under the surface of earth. Coal is formed due to carbonisation. It is believed that millions of years ago, the ground below the forests was split open by natural forces such as earthquakes and volcanoes. The forests got buried under the surface of earth. Thus, the plants had no contact with oxygen. Successive layers of sediments sealed the buried plants. Over millions of years, these deposits were subjected to tremendous pressure and heat finally transformed them into coal. a) What is carbonisation? b) Worldwide coal is the largest source of energy used for the generation of_____. c) Write any two locations of coal mines in India. d) Name the variety of coal, which is hard and contains 90% of carbon.	**4**

SECTION B		
Q.10	Draw the diagram of paramoecium with labelled nucleus and cilia.	**2**
Q.11	a) Define force. b) Name the type of forces involved in the following : i. A horse pulling a cart. ii. A ball slows down gradually and comes to rest on ground. iii. A coin falling to the ground on slipping from hand. iv. A plastic comb rubbed in dry hair picking up tiny pieces of paper.	**2**
Q.12	In the year 1740-41the Irish Famine Caused complete destruction of the potato crop due to the disease, 'Late Blight'. a) Which crop was destroyed completely? b) Name the microorganisms that caused the disease.	**2**
SECTION C		
Q.13	**(**a) Define the term calorific value. b) 'Gaseous fuels are better than other fuels.' Give any two advantages of gaseous fuels.	**3**
Q.14	List any three characteristics of pressure exerted by a liquid. **OR** Give two differences and one similarity between balanced and unbalanced forces.	**3**
Q.15	**Give Reason:** a) Rolling friction is less than sliding friction. b) Lubricants are applied between the moving parts of a machine. c) If we push the book on the table, it stops after sometime.	**3**

SECTION D		
Q.16	a) Mention any three ways through which pathogens can be transmitted. b) Name any three diseases caused by virus in humans. c) What are antibiotics? d) Write one precaution which must be taken while taking antibiotics? **OR** a) What is meant by food preservation? b) Name any four methods of preserving food with one example each.	**5**
Q.17	**Geeta arranges the circuit with, two pencils, water and battery as shown below;**  a. Name the process taking place in the activity. b. Name the **material** which is used as electrode in the activity. c. On which electrode is hydrogen evolved? d. On which electrode is oxygen evolved? e. Why is it recommended to add acid into the water? **OR** a) Define conductors of electricity. b) How is the conductivity of liquids tested? c) Show with the help of a diagram that lemon juice is a good conductor of electricity.	**5**

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