



BURARI PUBLIC SCHOOL

...a venture with **UNIQUE**

PERIODIC TEST - II

CLASS - VIII

SUBJECT- SCIENCE

Date ___/___/___

M.M.: 40

Name: Roll No..... T. sign.....

General Instructions:

- (i) This question paper comprises 21 questions. All questions are compulsory.
- (ii) This question paper is divided into five sections – A, B, C, and D.
- (iii) **Section A**-Question Nos. 1 to 10 are multiple choice type questions. Each question carries 1 mark.
- (iv) **Section B**-Question Nos. 11 to 15 are very short answer type questions. Each question carries 2 marks.
- (v) **Section C**-Question Nos. 16 to 20 are short answer type questions. Each question carries 3 marks.
- (vi) **Section D**-Question No.21 is a case-based unit of assessment carrying 5 marks.

Note- As per the guidelines of the New Education Policy (NEP), this holiday homework assessment will be conducted as an Open Book Assessment. Students are encouraged to refer to their textbooks, notebooks, and other learning resources while completing the assignment. The focus of this assessment is on understanding, application, and expression of ideas rather than rote learning. Students are advised to maintain honesty and originality in their work.

SECTION A

❖ 1 Mark question each

(10 × 1 = 10 Marks)

Choose the correct option.

Q1. Frictional force acts _____

- | | |
|-------------------------------------|---|
| (a) in the same direction as motion | (b) opposite to the direction of motion |
| (c) only on smooth surface | (d) only in liquids |

Q2. The least count of a spring balance means _____

- | | |
|--------------------------------|-----------------------------------|
| (a) smallest measurable weight | (b) maximum weight it can measure |
| (c) total length of spring | (d) mass of object |

Q3. Smallpox vaccine was discovered by _____

- | | |
|-----------------------|-------------------|
| (a) Alexander Fleming | (b) Louis Pasteur |
| (c) Edward Jenner | (d) Robert Koch |

Q4. The force applied by our hands while lifting a school bag is _____
(a) Gravitational force (b) Frictional force
(c) Muscular force (d) Magnetic force

Q5. Which of these diseases is spread by mosquitoes?
(a) Dengue (b) Typhoid
(c) Cholera (d) Tuberculosis

Q6. A plastic comb rubbed on dry hair attracts small bits of paper because of _____
(a) Magnetic force (b) Gravitational force
(c) Frictional force (d) Electrostatic force

Q7. Which of the following helps prevent infectious diseases?
(a) Antibiotics (b) Yoga
(c) Vaccination (d) Surgery

Q8. When two like poles of magnets are brought close to each other, they _____
(a) Attract each other (b) Repel each other
(c) Show no effect (d) Stick permanently

For question numbers 9-10, two statements are given—one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c), and (d) as given below:

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is not the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

Q9. Assertion (A): Vaccines are preventive and protect us from diseases.

Reason (R): Vaccines train the immune system to recognise and fight pathogens before they infect the body.

Q10. Assertion (A): An object at rest may have forces acting on it that balance each other.

Reason (R): When forces are balanced, the net force on the object is zero, keeping it stationary.

SECTION B

❖ 2 Mark question each

(5 × 2 = 10 Marks)

Q11. Two players pull a rope in opposite directions with equal force during a tug of war, and the rope does not move.

- i. What type of forces are acting?
- ii. What will happen if one player pulls harder?

Q12. Differentiate between mass and weight. (Any two points)

Q13. Give examples of:

- i. Deficiency diseases
- ii. Chronic diseases

Q14. (a) How does yoga support mental health?

OR

(b) Why is hygiene important for health?

Q15. (a) Identify and rewrite the correct statement:

- i. Diabetes is a deficiency disease
- ii. Parasites live in or on the body of an organism.

(b) Write the correct analogy:

- i. Common cold: Virus :: Typhoid :
- ii. Chicken pox: Skin :: Hepatitis :

SECTION C

❖ **3 Mark question each**

(5 × 3 = 15 Marks)

Q16. Give reasons for the following:

- i. Boats and airplane have a streamlined shape.
- ii. Pumice floats on water
- iii. We use oil and grease to lubricate machines.

Q17. i. Define buoyant force.

ii. Explain its effect on floating and sinking objects.

Q18. Mention any three ways to prevent infectious diseases.

Q19. (a) Discuss the application and effects of frictional force.

OR

(b) State the three main causes of non-communicable diseases.

Q20. i. State any two causes for the development of antibiotic resistance.

ii. How it can be prevented?

SECTION D

❖ 5 Mark question each

(5 × 1 = 5 Marks)

Read the given passage carefully and answer the following questions.

Q21. Aman was playing near a pond and noticed that a wooden log was floating on water, while a stone sank to the bottom. He asked his teacher why this happened. The teacher explained that water exerts an upward force on objects placed in it, called buoyant force. If the buoyant force is greater than or equal to the weight of the object, it floats. If the weight of the object is greater than the buoyant force, it sinks. This is explained by Archimedes' Principle.

- i State the Archimedes principle.
- ii. Describe the working principle of spring balance.
- iii Why does an object feel lighter when immersed in water.
- iv Define drag.