



PERIODIC ASSESSMENT 3 : 2020-2021

Student Name					
Date		Grade	IX	Roll No.	
Subject	Science	Marks	50	Teacher's Sign	

GENERAL INSTRUCTION:

- The question paper contains 3 sections. Attempt all the section
- All questions are compulsory
- Section A contains one word answer question.
- Section B contains very short answer question.
- Section C contains short answer question

SECTION – A

A. Answer the following in one word:

[5 Marks]

1 Which one of them is not a viral disease ?

- Dengue
- AIDS
- Typhoid
- Influenza

2 Which one of the following is not caused by bacteria ?

- Anthrax
- Malaria
- Tuberculosis
- Typhoid

3 A goalkeeper in a game of football pulls his hands backwards after holding the ball shot at the goal. This enables the goalkeeper to:

- Exert large force on the ball
- Increases the force exerted by the ball on hands
- Increase the rate of change of momentum
- Decrease the rate of change of momentum

4. Draw a sketch of Bohr's model of an atom with three shells.

5. A water tank filled up to $\frac{2}{3}$ of its height is moving with a uniform speed. On sudden application of the brake, the water in the tank would

- Move backward
- Move forward
- Come to the rest
- Be unaffected

SECTION – B

B. Answer the following in short:

[18 Marks]

6. State any two conditions essential for being free of disease ?

7. Why are we normally advised to take bland and nourishing food when we are sick

8. What is immunisation ?

9. When a carpet is beaten with a stick, dust comes out of it. Explain
10. If action is always equal to the reaction, explain how a horse can pull a cart?
11. An automobile vehicle has a mass of 1500 kg. What must be the force between the vehicle and road if the vehicle is to be stopped with a negative acceleration of 1.7 ms^{-2} ?
12. Write the distribution of electrons in carbon and sodium atoms.
13. Write the electronic configuration of any one pair of isotopes and isobars.
14. Na^+ has completely filled K and L shells. Explain.

SECTION – C

C. Answer the following questions in brief:

[27 Marks]

15. What precaution can you take in your school to reduce the incidence of infectious diseases ?
16. A doctor / nurse/ health worker is exposed to more sick people than others in the community. Find out how he / she avoids getting sick herself / himself ?
17. A baby is not able to tell her /his caretakers that he / she is sick ? What would help us to find out
 - a) that the baby is sick?
 - b) What is the sickness ?
18. Two objects each of mass 1.5 kg, are moving in the same straight line but in opposite directions. The velocity of each object is 2.5 ms^{-1} before the collision during which they stick together. What will be the velocity of the combined object after collision?
19. An object experiences a net zero external unbalanced force. Is it possible for the object to be travelling with a non-zero velocity? If yes, state the conditions that must be placed on the magnitude and direction of the velocity. If no, provide a reason.
20. Why do you fall in the forward direction when a moving bus brakes to a stop and fall backwards when it accelerates from rest?
21. How will you find the valency of chlorine, sulphur and magnesium?
22. What are the observations and limitations of Rutherford's model of the atom?
23. Describe Bohr's model of the atom.