

Class: 9

Subject: Science Set - 2

Maximum Marks: 50

Time Duration: 2 hrs

**General Instructions:**

Read the questions carefully before answering:

*Questions 1 to 10 carry 1 mark each. Answer in 1 or 2 sentences*

*Questions 11 to 20 carry 2 marks each. Answer in 3 or 4 sentences*

*Questions 21 to 25 carry 3 marks each. Answer in 5 or 6 sentences*

*Question 26 carries 5 marks.*

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Q1. A scalar quantity has \_\_\_\_\_?

- a) Direction
- b) Speed
- c) Magnitude
- d) None of the above

Q2. The gravitational force between two bodies is always \_\_\_\_\_?

- a) Attractive
- b) Repulsive
- c) Both attractive and repulsive
- d) None of the above

Q3. kWh is the unit of \_\_\_\_\_.

- a) Energy
- b) Work
- c) Power
- d) Acceleration

Q4. Which of the following disease is caused by bacteria?

- a) Malaria
- b) Tuberculosis
- c) Anthrax
- d) Typhoid

Q5. Energy flows in the ecosystem is \_\_\_\_\_?

- a) Multidirectional
- b) Bidirectional
- c) Unidirectional
- d) All of the above

Q6. Acceleration always acts in the direction of the \_\_\_\_\_?

- a) Final velocity
- b) Initial velocity
- c) Displacement
- d) Net force

Q7. Which of the following is not a marine fish?

- a) Catla
- b) Mackerel
- c) Pomphret
- d) King fish

Q8. Viruses that cause hepatitis are transmitted through \_\_\_\_\_?

- a) Food
- b) Air
- c) Water
- d) Personal contact

Q9. Newton meter is the SI unit of \_\_\_\_\_?

- a) Force
- b) Work
- c) Power
- d) None of the above

Q10. Which of the following waves do not require any kind of medium to propagate?

- a) Sound wave
- b) Water surface wave
- c) Light wave
- d) Earthquake wave

Q11. What is force and what is its SI unit?

Q12. What is echocardiography?

Q13. What do you mean by angular velocity? Mention its SI unit.

Q14. What is hybridization and what are its types?

Q15. What is kinetic energy? Explain with examples.

Q16. Differentiate between speed and velocity.

Q17. Describe the Laws of Reflection of Sound.

Q18. Write any two diseases that can be prevented by using vaccines.

Q19. Define the following:

- a) Uniform Speed
- b) Average Speed

Q20. How does fossil fuel cause air pollution?

Q21. Explain scalars and vectors quantities?

Q22. What is law of conservation of energy?

Q23. Discuss the three Newton's Laws of Motion.

Q24. Discuss the Kepler's Laws that govern the motion of the planets?

Q25. Why is immune system important for our health?

Q26. How will you calculate relative density of a cork using Archimedes's Principle?