

Half Yearly Examination 2021-2022

Subject - Science

Time : 2.30 Hrs.

Class - 9

M.M. : 70

Note- All question are compulsory. Mark of all question are marked against them.

1. Choose the correct answer :

6

(i) Which of the following is highly compressible ?

- (a) Solid (b) Liquid
(c) Gas (d) Solid and Liquid

(ii) Chemical formula of common salt is-

- (a) NaCl (b) HCl (c) NaOH (d) HNO_3

(iii) Which is called Suicidal bags of cell ?

- (a) Ribosome (b) Lysosome (c) Nucleus (d) Golgi body

(iv) Formula to find the momentum is-

- (a) $P = m / v$ (b) $P = mv^2$ (c) $P = v / m$ (d) $P = mv$

(v) Which of the following is blood pressure measuring instrument-

- (a) Thermometer (b) Voltmeter
(c) Sphygmomanometer (d) Ammeter

(b) The symbol of sodium is :

- (i) N (ii) S (iii) Na (iv) Ni

2. Which non metal is liquid at room temperature ?

1

3. What do you understand by free fall ?

1

4. Write the name of malaria parasite ?

1

5. Write the name of solute and solvent in tincture iodine ?

1

6. Convert the following temperature to Celsius scale-

2

- (i) 345 K (ii) 293 K

7. Calculate the atomic mass of CO_2 ?

2

8. Why mitochondria is known as power house of the cell ?

2

9. What do you understand by inertia ?

2

10. Write down the electronic configuration of Ca^{++} and calculate the numbers of electrons in it ?

2

11. What is force ? What is the relationship between force and acceleration? 2
12. What is immunisation ? 2
13. State the drawbacks of Rutherford's atomic model ? 2
14. What is Newton's law of gravitation ? State the value and unit of G ? 3
15. Write down the formulae of- 3
 - (i) Calcium Chloride
 - (ii) Sodium Hydroxide
 - (iii) Potassium Nitrate
16. State the difference between animal cell and plant cell. 3
17. A car decreases its speed from 80 Km/h to 60 Km/h in 5 second. Find the acceleration of the car ? 3
18. Explain the laws of chemical composition ? 3
19. What is soil erosion ? What are the methods to prevent it ? 3
20. Explain the vector and scalar quantities with examples ? 3
21. Draw a labelled diagram of nerve cell ? 3
22. Explain Newton's laws of motion with examples ? 4
23. Write down the difference between- 4
 - (i) Compound and Mixture
 - (ii) Isotopes and isobars
24. A train starting from rest attains a velocity of 72 Km/h in 5 minute. Assuming the acceleration is uniform. Find. 4
 - (i) The Acceleration
 - (ii) Distance travelled by train for this velocity ?
25. Draw a labelled diagram of a plant cell ? 4
26. Name the following- 4
 - (i) Tissue that forms inner lining of mouth ?
 - (ii) Tissue present in the brain ?
 - (iii) Tissue that transport food in plants ?
 - (iv) Tissue that connects muscles to bone ?

