S-45-A

MIDTERM EXAMINATIONS (2018 - 19)

GENERAL SCIENCE - Paper - I

(PHYSICAL SCIENCES)

(English Medium)

PART - A & B

Class : IX (Max. Marks : 40) Time : 2.45 Hrs.

Instructions :

1. Question paper contains two parts , Part A & Part B
2. 15 Minutes are allotted for reading the question paper (Part A &B) in addition to 2.30 hours for writing the answers.
3. Part - A answers should be written in a separate answer book.
4. There are three Sections in Part - A.
5. Answer all the questions.
6. Every answer should be visible and legible.
7. There is internal choice in Section - III.
8. Part-A & B should be given at the beginning of the exam only.

Marks : 30 **PART - A** **Time : 2 Hrs.**

Section - I

Note : 1. Answer all the questions.

2. Each question carries 1 Mark. **4 × 1 = 4**

1. What is sublimation ?
2. How do you know the speed of car at any instant ?
3. In the formula v = u + at what indicates the letters 'u' and 'a'.
4. What is the word used by Newton to represent the meaning of momentum.

Section - II

Note : 1. Answer all the questions.

2. Each question carries 2 Marks. **4 × 2 = 8**

5. Is there any charge in mass when a substance changes its state ? Explain with example.
6. Distinguish between speed and velocity.

P.T.O

7. A car travels from rest with a conatant acceleration 'a' for 't' seconds. What is the average speed of the car for its Journey if the car moves along a straight road ?

8. Why do we prefer to sip hot tea with a saucer rather than a cup ?

9. Two objects have masses 8 kg and 25 kg. Which one has more inertia ?

Section - III

Note : 1. Answer all the questions.

2. Each question carries 4 Marks. **4 × 4 = 16**

10. How do you appreciate sweating mechanism of human body to control the temperature of the body ?

(OR)

A car travels at a velocity of 80 km/hr during the first half of its running time and at 40 km/hr during the other half. Find the average speed of the car.

11. Derive any One equation in the equations of uniform accelerated motion.

(OR)

Name the characterstics of matter that are demonstrated by diffusion.

12. Explain with an activity to show the action and reaction forces acting on two different objects.

(OR)

Explain with an activity to observe the speed of diffusion of two gases.

13. Draw a diagram to explain the structure of particles in solids, liquids and gases.

(OR)

Draw the distance- time graph when the speed of a body increases and decreases uniformly.

Regd. No. [ ] **S-45-B** Marks : [ ]

MIDTERM EXAMINATIONS (2018 - 19)

GENERAL SCIENCE - Paper - I

(PHYSICAL SCIENCES)

(English Medium)

Part - B

Class : IX] **(Marks : 10)**

Name of the Student : ..... **Roll No.:** .....

Note :1. Answer all the questions.

2. Choose the correct Answer.

3. Each question carries $^1/_2$ mark. **$20 \times {}^1/_2 = 10M$**

14. The amount of water vapour present in air is called ..... [ ]

A) Humidity B) Pressure C) Compressibility D) Diffusion

15. The father of Modern Science [ ]

A) Aristotle B) Galileo C) Newton D) Berzelius

16. The order of diffusion [ ]

A) solids < liquids < gases B) solids > liquids > gases

C) solids < liquids > gases D) solids > liquids < gasess

17. 1 km = ... cm. [ ]

A) 10^4 cm B) 10^3 cm C) 10^5 cm D) 10^6 cm

18. Express 27°C in Kelvin scale [ ]

A) 27K B) 200K C) 300K D) 100K

19. The process when increased pressure and decreased volume ..... [ ]

A) Boiling B) Compressibility C) Diffusion D) Condensation

20. Evaporation depends on [ ]

A) Surface Area B) Melting C) Temperature D) Pressure

21. The speed of a car is 54 km/hr. Then its speed in m/sec is ..... [ ]

A) 10 m/sec B) 15 m/sec C) 54 m/sec D) 15 km/sec

P.T.O

22. Example of vector quantity is ..... [ ]
A) displacement B) distance
C) mass D) density

23. The product of mass and velocity of a body is called ..... [ ]
A) momentum B) Average velocity
C) Acceleration D) Volume

24. The property of an object that resists changes in its state of motion is called ..... [ ]
A) Momentum B) Inertia C) Not force D) Acceleration

25. Unit of force in S.I. system. [ ]
A) Newton B) m/sec C) m.sec. D) km

26. The average speed of the car if it covers 200 km in 5 hours. [ ]
A) 40 m/sec B) 40 km/hr C) 1000 km/hr D) 1000 m/sec

27. If a stone thrownup vertically into air, then the stone acquires acceleration is ..... [ ]
A) Positive Acceleration B) deceleration
C) Uniform acceleration D) None

28. The boiling point of water is ..... [ ]
A) 100°F B) 100°C C) 0°C D) 10°F

29. The motion of body when the velocity is constant [ ]
A) Non uniform motion B) Uniform motion
C) Circular motion D) None

30. The colour of Bromine gas is ..... [ ]
A) Yellow B) Brownish C) Green D) White

31. Solid Carbon dioxide is called ..... [ ]
A) Ice B) dry Ice C) Latent heat D) None

32. F = ma [ ]
A) Newton's 1st Law B) Newton's 2nd Law
C) Law of conservation of Mass D) Newton's 3rd Law

33. The acceleration of the race car that moves at constant velocity of 300 km/hr is [ ]
A) 0 B) 300 m/sec^2 C) 50 m/sec^2 D) None