

9\_Sci\_MCQ's

- Q1** What is the process of changing a liquid into a gas at its boiling point called?  

(a) evaporation	(b) melting	(c) condensation	(d) sublimation
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- Q2** Which state of matter has a definite shape and volume?  

(a) solid	(b) liquid	(c) gas	(d) plasma
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- Q3** The temperature at which a solid changes into a liquid at atmospheric pressure is called its:  

(a) melting point	(b) boiling point	(c) sublimation point	(d) freezing point
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- Q4** What is the process of changing a gas directly into a solid without passing through the liquid state called?  

(a) condensation	(b) melting	(c) evaporation	(d) sublimation
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- Q5** In which state of matter do particles have the least kinetic energy?  

(a) solid	(b) liquid	(c) gas	(d) plasma
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- Q6** What is the smallest particle of an element that can take part in a chemical reaction?  

(a) atom	(b) molecule	(c) compound	(d) nucleus
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- Q7** The chemical formula of water (H<sub>2</sub>O) represents:  

(a) one atom of hydrogen and two atoms of oxygen	(b) two atoms of hydrogen and one atom of oxygen	(c) one atom of hydrogen and one atom of oxygen	(d) two atoms of hydrogen and two atoms of oxygen
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- Q8** The mass of an atom is mainly located in its:  

(a) electrons	(b) protons	(c) neutrons	(d) nucleus
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- Q9** The atomic number of an element is determined by the number of:  

(a) protons	(b) electrons	(c) neutrons	(d) nucleons
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- Q10** The total number of atoms present in one molecule of a diatomic element is:  

(a) 1	(b) 2	(c) 3	(d) 4
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- Q11** What is the SI unit of speed?  

(a) meter	(b) kilometer	(c) second	(d) meter per second
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- Q12** Which of the following quantities has both magnitude and direction?  

(a) speed	(b) distance	(c) time	(d) velocity
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- Q13** If an object moves with a constant speed, what can be said about its acceleration?  

(a) it is zero	(b) it is negative	(c) it is increasing	(d) it is decreasing
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- Q14** What type of motion is exhibited by a freely falling object under the influence of gravity?  

(a) uniform motion	(b) circular motion	(c) rectilinear motion	(d) accelerated motion
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- Q15** Which of the following is an example of non-uniform circular motion?  

(a) a car moving along a straight road	(b) a pendulum swinging back and forth	(c) a spinning top rotating at a constant speed	(d) a car taking a turn on a circular track
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- Q16** Which of the following is a contact force?  

(a) gravitational force	(b) magnetic force	(c) frictional force	(d) electrostatic force
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- Q17** According to Newton's first law of motion, an object will remain at rest unless acted upon by:  

(a) an unbalanced force	(b) friction	(c) a contact force	(d) gravity
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- Q18** The force that opposes the relative motion between two surfaces in contact is called:  

(a) gravitational force	(b) electrostatic force	(c) tension force	(d) frictional force
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- Q19** What is the rate of change of momentum of an object called?  

(a) velocity	(b) force	(c) acceleration	(d) inertia
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- Q20** According to Newton's second law of motion, force is directly proportional to:  

(a) velocity	(b) displacement	(c) mass	(d) acceleration
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- Q21** What is the force of attraction between any two objects with mass called?

(a)	gravitational force	(b)	tension force	(c)	electrostatic force	(d)	magnetic force
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**Q22** Which law of motion is responsible for the falling of an apple from a tree?

(a)	newton's first law of motion	(b)	newton's second law of motion	(c)	newton's third law of motion	(d)	law of gravitation
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**Q23** The value of acceleration due to gravity on the surface of the Earth is approximately:

(a)	9.8 m/s <sup>2</sup>	(b)	6.67 × 10 <sup>-11</sup> n m <sup>2</sup> /kg <sup>2</sup>	(c)	3 × 10 <sup>8</sup> m/s <sup>2</sup>	(d)	3 × 10 <sup>8</sup> n m <sup>2</sup> /kg <sup>2</sup>
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**Q24** The weight of an object on the Moon is about one-sixth its weight on Earth. This is because:

(a)	the moon's mass is one-sixth that of earth's	(b)	the moon's surface is smoother than earth's	(c)	the moon's radius is smaller than earth's	(d)	the moon's gravitational field is weaker than earth's
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**Q25** What is the value of the universal gravitational constant (G)?

(a)	6.67 × 10 <sup>-8</sup> n m <sup>2</sup> /kg <sup>2</sup>	(b)	9.8 m/s <sup>2</sup>	(c)	3 × 10 <sup>8</sup> m/s <sup>2</sup>	(d)	9.8 n/kg
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**Q26** The fundamental unit of life in all living organisms is the:

(a)	cell	(b)	molecule	(c)	organ	(d)	tissue
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**Q27** The cell theory states that:

(a)	cells are only present in animals	(b)	cells are the basic structural unit of all living organisms	(c)	cells are visible to the naked eye	(d)	cells can survive without water
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**Q28** The outermost boundary of an animal cell is called the:

(a)	cell wall	(b)	cell membrane	(c)	cytoplasm	(d)	nucleus
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**Q29** The process by which plants prepare their own food using sunlight, water, and carbon dioxide is called:

(a)	respiration	(b)	excretion	(c)	photosynthesis	(d)	digestion
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**Q30** Which cell organelle is known as the "powerhouse of the cell" because it produces energy?

(a)	nucleus	(b)	mitochondria	(c)	chloroplast	(d)	ribosome
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\*\*\*\*\*All The BEST\*\*\*\*\*

**Answers :**

- Q1 A**
- Q2 A**
- Q3 A**
- Q4 D**
- Q5 A**
- Q6 A**
- Q7 B**
- Q8 D**
- Q9 A**
- Q10 B**
- Q11 D**
- Q12 D**
- Q13 A**
- Q14 D**
- Q15 D**
- Q16 C**
- Q17 A**
- Q18 D**
- Q19 B**
- Q20 C**
- Q21 A**
- Q22 D**
- Q23 A**
- Q24 A**
- Q25 A**
- Q26 A**
- Q27 B**
- Q28 B**
- Q29 C**
- Q30 B**

