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*the metamorphosis starts from here....*



**Brilliant International  
Olympiad of  
SCIENCE**

## **Class-9 (Syllabus and Sample Question Paper)**

Matter in our surroundings & is matter around us in pure form, Atoms and Molecules & Structure of Atom, The Fundamental Unit of Life & Tissues & Diversity in living organisms, Motion & Force and Laws of Motion, Gravitation | Work and Energy, Sound, Why do we fall ill, Natural Resources, Improvement in food resources.

The Actual Question Paper Contains 40 Questions. The Duration of the Test Paper is 60 Minutes

### **1. Which of the following is not a Property of the matter?**

- (A) They are extremely small in size
- (B) They attract each other
- (C) They are constantly moving
- (D) They remains at rest in gaseous state
- (E) None of these

### **2. When you keep a glass of cold water on the table, you observe some drop of water outside the glass. This phenomenon can be explained as ?**



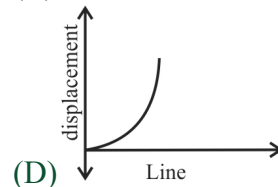
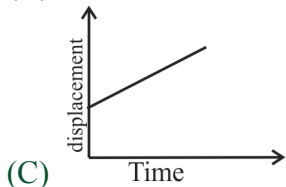
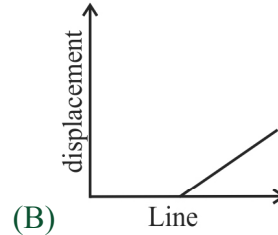
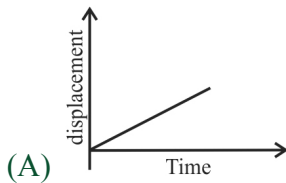
- (A) Vaporisation of atmospheric moisture
- (B) Condensation of atmospheric moisture
- (C) Freezing of atmospheric moisture
- (D) Melting of atmospheric moisture
- (E) None of these

### **3. 1 mole of atom can be represented as ?**

- (A)  $6.022 \times 10^{23}$  atoms
- (B)  $6.022 \times 10^{23}$  molecules
- (C)  $6.022 \times 10^{23}$  electrons
- (D)  $6.022 \times 10^{21}$  atoms
- (E) None of these

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4. Which one of the following represents non-uniform motion ?



(E) None of these

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5. Newton's first law gives ?

(A) Definition of force

(B) Measurement of force

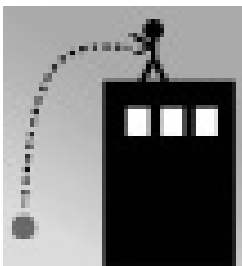
(C) Definition of velocity

(D) Definition of displacement

(E) None of these

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6. We know that when an object is dropped from some height, a uniform acceleration produced in it by gravitational pull of the earth. This uniform acceleration is known as acceleration due to gravity. At which portion the acceleration due to gravity ( $g$ ) will be the maximum ?



(A) At equator

(B) At tropic of cancer

(C) At pole

(D) At tropic of capricorn

(E) None of these

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7. A toy car is moving with a uniform velocity 10 m/s and having a mass of 30 kg. The kinetic energy possessed by the toy car is ?

(A) 300 J

(B) 1500 J

(C) 3000 J

(D) 4500 J

(E) None of these

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8. Mr. X suffered by night blindness. Generally he avoids to eat green vegetables, milk etc. The cause of this problem with Mr. X is ?

(A) Deficiency of vitamin A

(B) Excess amount of vitamin A

(C) Deficiency of vitamin B

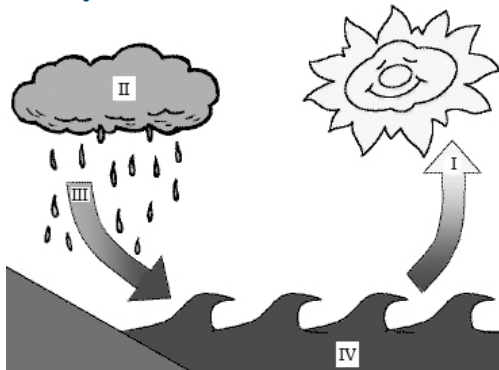
(D) Excess amount of vitamin B

(E) None of these

9. A soil has very fine and smooth texture. This kind of soil is prone to water logging in spring season and having high nutrients levels for the growth of plants. The kind of soil is :

- (A) Sandy soil      (B) Clayey soil      (C) Silty Soil      (D) Loamy soil  
(E) None of these

10. Identify I, II, III and IV in the following diagram



- (A) (i) Evaporation (ii) Precipitation (iii) Condensation (iv) Collection  
(B) (i) Evaporation (ii) Precipitation (iii) Collection (iv) Condensation  
(C) (i) Evaporation (ii) Condensation (iii) Precipitation (iv) Collection  
(D) (i) Condensation (ii) Evaporation (iii) Precipitation (iv) Collection  
(E) None of these

11. The first animal is classified according to :

- (A) Structure      (B) Size      (C) Living      (D) Fooding  
(E) None of these

12. Which of the following elements is liquid at room temperature ?

- (A) argon      (B) gallium      (C) mercury      (D) cesium  
(E) None of these

13. Chlorine is a \_\_\_\_\_ element.

- (A) monoatomic      (B) diatomic      (C) tetra-atomic      (D) polyatomic  
(E) None of these

14. Find the energy possessed by an object of mass 20 kg when it is at a height of 12 m above the ground. Given,  $g = 9.8 \text{ m s}^{-2}$ .

- (A) 2352 N      (B) 2352 J      (C) 2190 J      (D) 2452 J  
(E) None of these

15. Which of the following does not come under animal husbandry ?

- (A) Cattle farming      (B) Bee keeping      (C) Fish production      (D) Poultry farming  
(E) None of these

## ANSWERS

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|-------|-------|-------|-------|-------|
| 1. D  | 2. C  | 3. A  | 4. D  | 5. A  |
| 6. C  | 7. B  | 8. A  | 9. B  | 10. C |
| 11. C | 12. C | 13. B | 14. B | 15. E |