







Society of Science Education

New Delhi, India

FOR SUPREMACY IN SCIENCE & MATHEMATICS www.silverzone.org

Class 9th

Syllabus & Sample Questions

Matter and our surroundings, Atoms and Molecules, Tissues, Diversity in Living Organisms, Force and Laws of Motion, Gravitation, Work and Energy, Sound, Why Do We Fall ill, Natural Resources, Food Resources, Number system, Polynomials, Coordinate Geometry, Linear Equations in Two Variables, Euclid's Geometry, Linear and Angles, Triangles, Quadrilaterals and its Area, Circles, Heron's Formula, Surface Areas and Volumes, Statistics, Probability, Analogy, Blood relation, Classification, Coding Decoding, Direction Test, Letter series, Mixed series, Non verbal, Number series & Syllogism .

The actual question paper contains 40 questions. The duration of the test paper is 60 minutes.

		(A)				
What does atomicity mean? (A) Number of electrons present in an atom		(A)				
(C) Number of neutrons present in an atom(D) Number of atoms present in a molecule of a	5.	(E) None of these An object is dropped from some height. It moves through a distance of 24.5 m in last second before touching the ground. Find the height from which it				
(E) None of these		was dropped.				
A solution contains 40 ml of ethanol in 100 ml of water. What is the concentration of this solution?		(A) 44.1 m (B) 49 m				
(A) 26.5% (B) 27.75%		(C)				
` _	6.	(E) None of these In the following figure, the bisectors of ∠B and ∠C				
Select the isobar from the following.	"	meet at O. Then ∠BOC is equal to:				
(A) \square ${}^{6}C_{12}$ and ${}^{6}C_{14}$		Â				
(B) $\Box^{1}O_{235}$ and $\Box^{1}O_{238}$ (C) $\Box^{1}H_{1}$ and $\Box^{1}H_{2}$						
(D) $\prod_{=}^{18} Ar_{40}$ and $^{20}Ca_{40}$		B C				
· · · —		(A) $\square 90^{\circ} + \frac{\angle A}{2}$ (B) $\square 90^{\circ} + \frac{/R}{2}$				
when 3 g of carbon is burnt in 8 g of oxygen, 11 g of carbon dioxide is produced. What mass of carbon dioxide will be formed when 3 g of carbon is burnt in 50 g of oxygen?		(C) $\square 90^{\circ} + \frac{\cancel{C}}{2}$ (D) $\square 90^{\circ}$ (E) \square None of these				
	(A) Number of electrons present in an atom (B) Number of protons present in an atom (C) Number of neutrons present in an atom (D) Number of atoms present in a molecule of a substance (E) None of these A solution contains 40 ml of ethanol in 100 ml of water. What is the concentration of this solution? (A) 26.5% (B) 27.75% (C) 29.6 % (D) 28.57 % (E) None of these Select the isobar from the following. (A) 6°C ₁₂ and 6°C ₁₄ (B) 9°2U ₂₃₅ and 9°2U ₂₃₈ (C) 1°1H ₁ and 1°H ₂ (D) 1°8Ar ₄₀ and 2°CCa ₄₀ (E) None of these When 3 g of carbon is burnt in 8 g of oxygen, 11 g of carbon dioxide is produced. What mass of carbon dioxide will be formed when 3 g of carbon	(A) Number of electrons present in an atom (B) Number of protons present in an atom (C) Number of neutrons present in an atom (D) Number of atoms present in a molecule of a substance (E) None of these A solution contains 40 ml of ethanol in 100 ml of water. What is the concentration of this solution? (A) 26.5% (B) 27.75% (C) 29.6 % (D) 28.57 % (E) None of these Select the isobar from the following. (A) 6C ₁₂ and 6C ₁₄ (B) 9 ² U ₂₃₅ and 9 ² U ₂₃₈ (C) 1H ₁ and 1H ₂ (D) 18Ar ₄₀ and 20Ca ₄₀ (E) None of these When 3 g of carbon is burnt in 8 g of oxygen, 11 g of carbon dioxide is produced. What mass of carbon dioxide will be formed when 3 g of carbon				

7. The median of the following frequency distribution is:

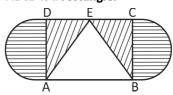
X	10	11	12	13	14	15	16	17	18	19	20
f	5	4	3	2	4	5	3	4	5	3	2

- (A) 21
- (B) 17
- (C) 19
- (D) 15
- (E) None of these
- 8. There are some tickets numbered as 1, 2, 3 upto 25, one ticket in drawn at random. What is the probability, that the number on the ticket drawn is either a multiple of 3 or 5?
 - (A) $\Box \frac{11}{25}$
- (B) $\Box \frac{12}{25}$
- (C) $\Box \frac{14}{25}$
- (D) $\Box \frac{16}{25}$
- (E) None of these
- 9. Find the missing number in the following figure.

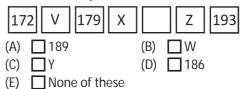


- (A) **5**6
- (B) **9**9
- (C) <u>____</u>77
- (D) 117
- (E) None of these

10. Find the area of the shaded region in the following figure, if AB = 24 cm, BC = 12 cm and quadrilateral ABCD is a rectangle.



- (A) $\prod 72(\pi + 4) \text{ cm}^2$
- (B) $\prod 108(\pi +4) \text{ cm}^2$
- (C) $\square 36(\pi +4) \text{ cm}^2$
- (D) $\square 256(\pi +4) \text{ cm}^2$
- (E) None of these
- 11. Fill the blank square.



12. What are the directions of the route given below?

