

**SST PUBLIC SCHOOL RASHIDABAD**  
**ENTRY TEST 2021**

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**Subject: Science**

**Maximum Marks: 40**

**Time: 40 Min**

**Class: Pre-Cambridge**

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1. If Valency of oxygen is 2 and that of aluminium is 3 then the formula of aluminium oxide will be
  - a) AlO
  - b) Al<sub>3</sub>O<sub>2</sub>
  - c) AlO<sub>2</sub>
  - d) Al<sub>2</sub>O<sub>3</sub>
  
2. Which of the following is a correct electronic configuration of sodium?
  - A) 2,8
  - B) 8,2
  - C) 2,1,8
  - D) 2,8,1
  
3. To find out number of neutrons in an atom, we need to know the
  - A. atomic number
  - B. proton number
  - C. electron number
  - D. mass number
  
4. The attraction of two ions due to opposite charge is known as
  - A. ionic bonding
  - B. covalent bonding
  - C. metallic bonding
  - D. dative bonding
  
5. If the mass of protons and neutrons is 1, then the mass of electron is
  - A. 2
  - B. 2-Jan
  - C. 4-Jan
  - D. 1/1890
  
6. The name of physicist who discovered the nucleus of atom was
  - A. Democritus
  - B. John Dalton
  - C. Ernest Rutherford
  - D. Vander Waals
  
7. Sodium ion has

- A. positive charge
- B. negative charge
- C. no charge
- D. may be positive or negative

8. Radioactive particles give off

- A. waves
- B. rays
- C. energy
- D. light

9. The formula that shows the number and kind of atoms which a substance of a molecule contained, is known as

- A. chemical formula
- B. atomic formula
- C. compound formula
- D. molecular formula

10. Sodium becomes a cation when

- A. it loses a proton
- B. it gains a proton
- C. it loses an electron
- D. it gains an electron

11. The symbol of potassium is

- A. Po
- B. K
- C. Ps
- D. Pa

12. Electrons have

- A. negative charge
- B. positive charge
- C. no charge
- D. both charges

13. Valency of sodium is

- A. 1
- B. 4
- C. 3
- D. 2

14. Atoms of sodium and chlorine are stuck by chemical glue which is known as
- A. bond
  - B. alpha gum
  - C. force of glue
  - D. atomic gum
15. A large amount of heat is produced in power plants when energy is released which turns
- A. black rods into orange
  - B. water into steam
  - C. ice into water
  - D. acid into alkali
16. Which one of the following is a reliable measure?
- (a) Hotness
  - (b) Coldness
  - (c) Temperature
  - (d) None of these
17. Name the device which is used to measure the hotness or coldness of an object.
- (a) Picometer
  - (b) Barometer
  - (c) Manometer
  - (d) Thermometer
18. Which one is filled in the bulb of a thermometer?
- (a) Mercury
  - (b) Lead
  - (c) Copper
  - (d) Silver
19. What is the normal temperature of a healthy person?
- (a)  $37^{\circ}\text{C}$
  - (b)  $37^{\circ}\text{F}$
  - (c) 37 K
  - (d) None of these
20. Heat always flows
- (a) from a colder object to a hotter object
  - (b) from a hotter object to a colder object
  - (c) in both the directions
  - (d) heat never flows from one object to other

