

21. The volume occupied by 2.8 g of N<sub>2</sub> at STP

A. 2.24 dm<sup>3</sup>

B. 22.4 dm<sup>3</sup>

C. 1.12 dm<sup>3</sup>

D. 112 dm<sup>3</sup>

**Answer:** Option A

---

22. The mass of decimole of electrons (N<sub>A</sub>) is

A. 1.008 mg

B. 0.184 mg

C. 0.054 mg

D. 5.4 mg

**Answer:** Option c

---

23. The number of moles of CO<sub>2</sub> which contains 16 g of oxygen is

A. 0.25

B. 0.5

C. 0.75

D. 1

**Answer:** Option B

---

24. Which of the following statements is wrong about isotopes?

A. they possess different mass number

B. they possess different physical properties

C. they possess same chemical properties

D. they possess different position in the periodic table

**Answer:** Option D

---

25. How many isotopes have odd atomic number?

A. 154

B. 280

C. 86

D. 300

**Answer:** Option c

---

26. Qualitative analysis is carried out for

- |                                      |   |
|--------------------------------------|---|
| <u>A.</u> identification of elements | <u>B.</u> estimation of amounts of elements |
| <u>C.</u> molar ration of elements   | <u>D.</u> molar volume of elements          |

**Answer:** Option A

---

27. Percentage of calcium in calcium carbonate is

- |               |               |
|---------------|---------------|
| <u>A.</u> 80% | <u>B.</u> 30% |
| <u>C.</u> 40% | <u>D.</u> 20% |

**Answer:** Option c

---

28. Combustion analysis is performed to determine

- |                             |                          |
|-----------------------------|--------------------------|
| <u>A.</u> Empirical formula | <u>B.</u> Molecular mass |
| <u>C.</u> Molecular formula | <u>D.</u> Formula mass   |

**Answer:** Option A

---

29. Mostly elements have fractional atomic masses because of

- |   |  |
|---|--|
| <u>A.</u> mass of an atom itself is in fraction   | <u>B.</u> atomic masses are average masses of isobars  |
| <u>C.</u> atmoic masses are average masses of isotopes proportional to their relative abundance | <u>D.</u> atmoic masses are average masses of isotopes |

**Answer:** Option c

---

30. Isotopes differ in

- |   |  |
|---|--|
| <u>A.</u> properties which depend upon mass | <u>B.</u> arrangement of electrons in orbitals |
| <u>C.</u> chemical properties               | <u>D.</u> all of the above                     |

**Answer:** Option A

Techofworld.In