

21. Boron is non metal while other elements of IIIA group are metals. This is because

- A. it has small size
- B. it has high nuclear charge
- C. it forms molecular addition compounds
- D. all of the above

**Answer:** Option D

22. CO<sub>2</sub> is gas while SiO<sub>2</sub> is solid at room temperature.

- A. carbon is non-metal while silicon is semi-metal
- B. CO<sub>2</sub> is an independent molecule while SiO<sub>2</sub> has network covalent structure
- C. CO<sub>2</sub> forms multiple bond while silicon does not form multiple bonds
- D. Silicon has all sigma bonds

**Answer:** Option B

23. The coloured glassy mass in borax bead test is due to the formation of

- A. metal borate
- B. metal meta borate
- C. metal boride
- D. metal silicate

**Answer:** Option B

24. Identify the correct statement regarding CO

- A. it combines with H<sub>2</sub>O to form carbonic acid
- B. it reacts with red blood cells of haemoglobin
- C. it is powerful oxidizing agent
- D. it is used to prepare aerated drinks

**Answer:** Option B

25. The chief ore of A? is:

- A. Na<sub>3</sub>A?<sub>6</sub>F<sub>6</sub>
- B. A?<sub>2</sub>O<sub>3</sub>?H<sub>2</sub>O

C.  $A_2O_3H_2O$

D.  $A_2O_33H_2O$

**Answer:** Option B

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26. If temperature of gallium arsenide is increased then its conductivity will

A. decrease

B. increase

C. remains constant

D. first decreases then increases

**Answer:** Option B

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27. Boric acid cannot be used

A. As antiseptic in medicine

B. For washing eyes

C. In soda bottles

D. For enamel and glazes

**Answer:** Option C

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28. Which of the following will decompose to produce litharge

A.  $Pb_2O$

B.  $Pb_3O_4$

C.  $PbO_2$

D. All of the above

**Answer:** Option B

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29. Which element can form tripositive ion?

A. Beryllium

B. Carbon

C. Silicon

D. Aluminium

**Answer:** Option D

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30. Which of the following is metasilicic acid?

A.  $H_2SnO_3$

B.  $H_2SiO_3$

C.  $H_3AsO_4$

D.  $H_3SbO_4$

**Answer:** Option B

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