## p & s- Block Element JEE Main Questions 2025 PDF

## s-Block Elements

A:  $AI^{3+} < Mg^{2+} < Na^{+} < F^{-}$ .

Q: Which alkali metal forms a superoxide in reaction with oxygen?

A: Potassium (K), Rubidium (Rb), and Cesium (Cs).

Q: Which of the following is used to remove the permanent hardness of water?

A: Washing soda (Na<sub>2</sub>CO<sub>3</sub>).

Q: Sodium ions are responsible for:

A: Nerve impulse transmission.

Q: Lithium shows a diagonal relationship with magnesium. Which property justifies this relationship?

- a) Formation of soluble hydroxide
- b) Formation of nitrides
- c) High polarizing power
- d) Formation of peroxides

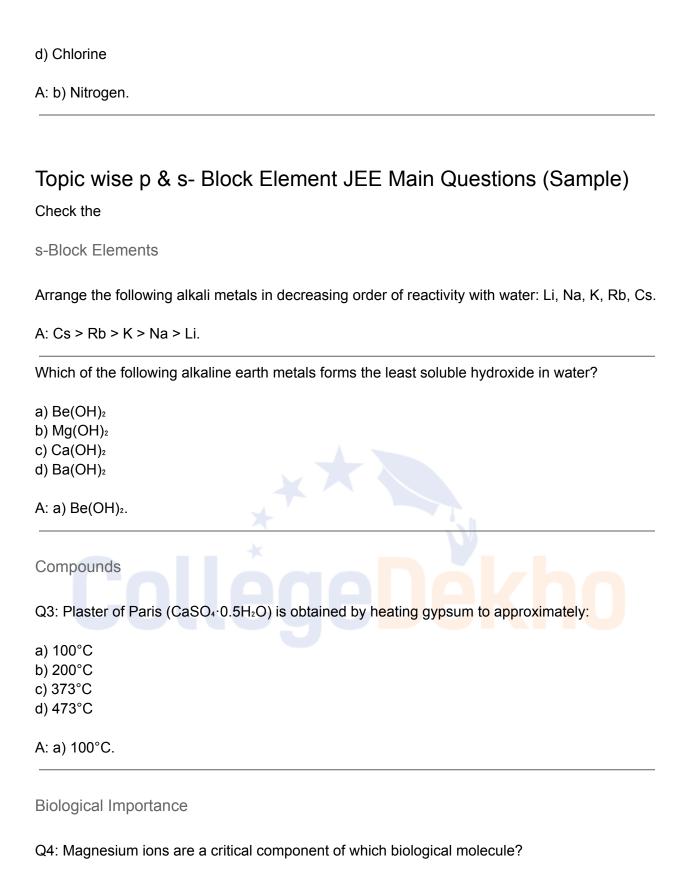
A: c) High polarizing power.

- Q: Which alkali metal is used in photoelectric cells?
- a) Sodium
- b) Potassium
- c) Cesium
- d) Rubidium

A: c) Cesium.

## p-Block Elements

p Block Elements
Q: Which element shows a +1 oxidation state due to the inert pair effect?
A: Thallium (TI).
Q: Graphite is a good conductor of electricity because:
A: It has free delocalized π-electrons.
Q: Which of the following is a strong oxidizing agent? A: Ozone (O <sub>3</sub> ).
Q: Identify the gas responsible for acid rain:
A: Sulfur dioxide (SO <sub>2</sub> ).
Q: Which of the following is used in the manufacture of heat-resistant glass?
A: Borax (Na <sub>2</sub> [B <sub>4</sub> O <sub>5</sub> (OH) <sub>4</sub> ]·8H <sub>2</sub> O).
Q: The oxidation state of oxygen in OF <sub>2</sub> is:
a) -2
b) -1
c) +2
d) +1
A: c) +2.
Q: Which of the following compounds contains both ionic and covalent bonds?
a) NaCl
b) CaCO <sub>3</sub>
c) H <sub>2</sub> O
d) NH₃
A: b) CaCO <sub>3</sub> .
Q: Which gas is liberated when ammonium dichromate is heated?
a) Oxygen
b) Nitrogen
c) Ammonia



- a) Hemoglobin
- b) DNA
- c) Chlorophyll
- d) ATP

A: c) Chlorophyll.

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