



S.S. Divine School



Pre – Primary , Primary, Secondary & Higher Secondary

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STD:-11 (SCIENCE STREAM)

SUB:-CHEMISTRY (052)

MEDIUM :- ENGLISH

DATE :- 25/08/2022

Max. Marks:-25

Time:-1.00 hour

❖ INSTRUCTIONS:

- 1) In section A total 25 questions are given, choose any 5. (1 Mark Each)
- 2) In section B total 15 questions are given, choose any 3. (2 Marks Each)
- 3) In section C total 15 questions are given, choose any 3. (3 Marks Each)
- 4) In section D total 05 questions are given, choose any 1. (5 Marks Each)

Section - A

Answer the following questions in very short. (1 mark each)

(1)

Write the name and symbol of an element with atomic number 118 according to IUPAC nomenclature.

(2)

What is meant by transuranium elements?

(3)

Which of the following are isoelectronic species? F^- , Ar, Mg^{2+} , Rb^{2+} , Na^+ .

(4)

Define diagonal relationship.

(5)

Write general electronic configuration for lanthanoid series.

Section - B

Answer the following questions in short. (2 marks each)

(1)

Cations are smaller in size than their parent atom. Explain.

(2)

What is meant by covalent radius and metallic radius? Explain with illustrations.

(3)

The first ionisation enthalpy of sodium is lower than that of magnesium. Explain.

Section - C

Answer the following questions in short. (3 marks each)

(1)

What is electron gain enthalpy? Explain in detail.

(2)

Give information about f-block elements.

(3)

Account for the following:

(i) Which out of Fe^{2+} or Fe^{3+} is smaller in size and why?

(ii) Anions are bigger in size than their parent atom.

(iii) Which is largest in size – Cu^+ , Cu^{2+} or Cu ? Why?

Section - D

Answer the following questions in detail. (5 marks each)

(1)

Write five points of difference between Mendeleev periodic table and modern periodic table.