



DATE : 27/05/2012
STD : X

IDEAL TEST SERIES
SUBJECT: SCIENCE SEC (I & II)

MARKS : 40
TIME :1.30

SECTION A

Q.1. (A) Fill in the blanks (2 M)

- (1) Elements showing properties of both metal and non-metals are known as.....
- (2) The law used by Newlands to arrange elements is known as.....

(B) True or False (2 M)

- (1) Atomic radius increase in a group from top to Bottom.
- (2) Transition elements have last 3 shells incompletely filled.

(C) State the following (2 M)

- (1) Mendeleev's periodic law.
- (2) Modern periodic law.

Q.2. (A) Answer the following. (10 M)

- (1) Distinguish between -s block elements and P - block elements.
- (2) Elements in same group show same valency. Give reason.
- (3) Name the following-
 - (i) Two elements of Zero group
 - (ii) Two elements of halogen family.
- (4) Write electronic configuration of - (i) Li (at no.3) (ii) Mg (at no. 12)
- (5) Define (a) Period (b) Group

Q.3. Attempt any one (4 M)

- (1) What are the demerits of Mendeleev's periodic table.
- (2) State Newlands Octave and explain features of Newlands table.

SECTION B

Q.1. (A) Fill in the blanks. (2 M)

- (1) Metals react with acids to produce and
- (2) Pure gold iscarat gold.

(B) Find odd man out. (2 M)

- (1) Mg, Al, Na, Si
- (2) NaOH, KOH, HCl, Ca(OH)₂

(C) State True / False (2 M)

- (1) Oxides of metals are acidic in nature.
- (2) All metals are solid at room temperature.

Q.2. Attempt the following. (10 M)

- (1) Write two methods of preventing rusting of Iron.
- (2) Explain the terms (i) Ores (ii) Calcination.
- (3) Sodium is stored under kerosene. Give reason.
- (4) Name one metal each occurring as –
(i) A sulphide (ii) A carbonate.
- (5) Arrange the following metals in the decreasing order of chemical reactivity.
Cu, Fe, Mg, Zn, Na, Ca.

Q.3. Attempt (4 M)

- (1) In the extraction of Aluminium.
 - (a) Name the process of concentration of Bauxite.
 - (b) Write cathode reaction in Electrolytic reduction of Alumina.
 - (c) Write the function of Cryolite.
 - (d) Write an equation for the action of heat on aluminium hydroxide.