Code: AE04 PART - I

Subject: MATERIALS AND PROCESSES

TYPICAL QUESTIONS & ANSWERS

OBJECTIVE TYPE QUESTIONS

Each Question carries 2 marks.

Choose correct or the best alternative in the following:

- Q.1 The correct order of the coordination number is SC, BCC, FCC and HCP unit cells is
 - (A) 12, 8, 12, 6.

(B) 6, 8, 12, 12.

(C) 8, 6, 12, 12,

(D) 6, 12, 12, 8.

Ams: B

- O.2 Frankel and Schottky imperfections are
 - (A) dislocations in ionic crystals.
 - (B) Grain boundaries in covalent crystals.
 - (C) Vacancies in ionic crystals.
 - (D) Vacancies in covalent crystals.

Ams: C

- Q.3 The electronic polarizability α_e of a mono atomic gas atom where R is the radius of circular orbit is
 - (A) 4mm

(B) 4mc R

(C) $4\pi c_0 R^3$

(D) $4\pi\epsilon_0 R^2$

Ams: C

- Q.4 The forbidden energy gap of carbon in diamond structure is
 - (A) 7.0 ev

(B) 1.0 ev

(C) 0.01 ev.

(D) none

Ans: A

- Q.5 For silicon doped with trivalent impurity.
 - (A) $n_e >> n_h$

(B) $n_c > n_b$.

(C) $n_h \gg n_e$.

(D) $n_h > n_e$.

Ams: C

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