(a) N type semiconductor has a majority of holes. (b) To convert a pure semiconductor into a P type semiconductor, Phosphorous is used as a dopant. In energy band diagram of a metal, forbidden band is absent. (c) Resistance of a semiconductor increases on increasing its temperature. (d) (B) Answer the following questions briefly: State any one advantage of a full wave rectifier over that of a half wave (i) [1] rectifier. State the condition for a balanced Wheatstone bridge. [1] (iii) Name the rule used to determine the direction of induced current in the case CHRES [11] of a straight conductor moving in a magnetic field. With what type of source of light are plane wavefronts associated? (iv) (v) Write an expression for the torque acting on an electric dipole kept in a [1] uniform electric field in vector form. (vi) In Young's double slit experiment, what should be the path difference [11] between two overlapping waves to form a bright band / fringe? (vii) What are isotones? [1]

Which one of the following statements is correct with reference to

Semiconductor Physics?

SECTION B – 14 MARKS

Question 2 (i) (a) State Gauss' theorem. (b) What is the SI unit of electric flux? OR

(ii) Calculate the equivalent capacitance C' if n identical capacitors each of capacitance C are connected in series. [11]

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