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JEE MAIN SEMICONDUCTOR ELECTRONICS — INTRINSIC AND EXTRINSIC SEMICONDUCTORS — PYQS

Max. Marks: 4 **Questions:** 1

Section A (MCQ) — 1 question

Q.1 Consider an n-type semiconductor in which n_e and n_h are number of electrons and holes, respectively.

A. Holes are minority carriers

B. The dopant is a pentavalent atom

C. $n_e n_h \neq n_i^2$
(where n_i is number of electrons or holes in semiconductor when it is in intrinsic form)

D. $n_e n_h \geqslant n_i^2$

E. The holes are not generated due to the donors

Choose the correct answer from the options given below : [JEE Main 2025 (Online) 4th April Evening Shift]

(1) (A), (B), (E) only (2) (A), (C), (E) only

(3) (A), (B), (C) only (4) (A), (C), (D) only

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ANSWER KEY

Ques.	1										
Ans.	1										