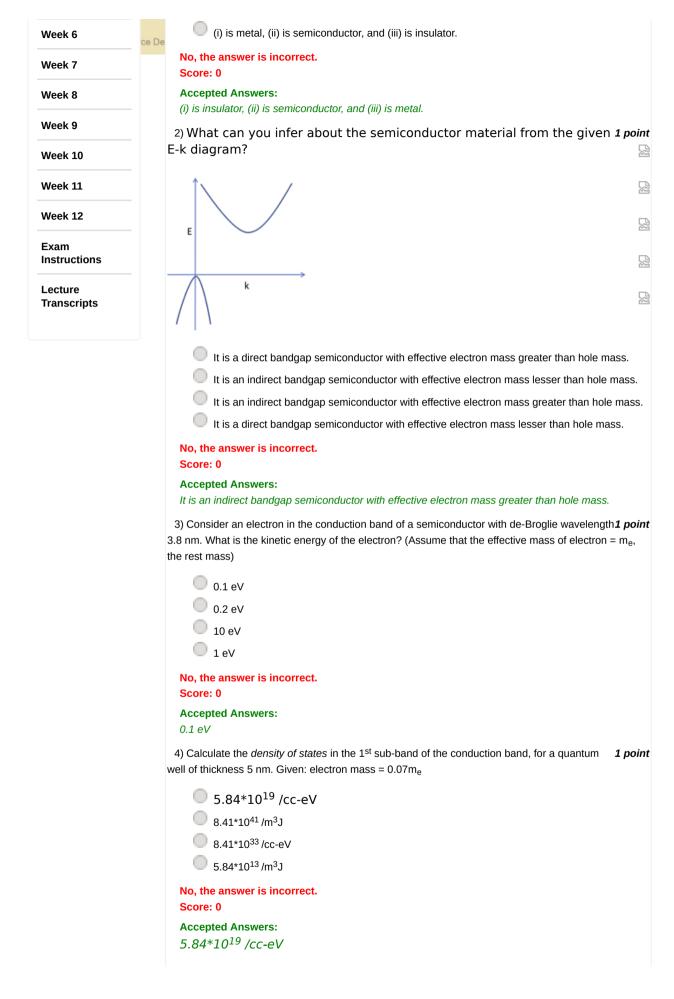


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5) Consider a piece of semiconductor having the dimensions  $L_x \times L_y \times L_z$  as 5 mm  $\times$  2 **1** *point* mm  $\times$  1 mm. In the k-space, the smallest k-vector with all three components non-zero  $(k_x, k_y, k_z \neq 0)$  is—

O (5π, 2π, π) mm <sup>-1</sup>	
<ul> <li>(0.2π, 0.5π, π) mm<sup>-1</sup></li> <li>(π, 2π, 5π) mm<sup>-1</sup></li> <li>(π, 0.2π, 0.5π) mm<sup>-1</sup></li> </ul>	
No, the answer is incorrect. Score: 0	
Accepted Answers: ( $0.2\pi$ , $0.5\pi$ , $\pi$ ) mm <sup>-1</sup>	

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