

Subject : Physics Class : XI		Question Paper 14: Semicondutor				-	
i	 Choose to bond and the order is	rgy gap l l valence r of 0.7 	 <u>N-A</u> ect option : between the condu- band of a substance eV, then the substance b) a semiconduct d) a super conduct d) a super conduct f, acceptor impurity b) indium d) arsenic mds formed in p-type actors are respective b) 3, 4 d) 5, 4 	e is of ance orc) etor num etor is	Q.5 Q.6 Q.7 Q.8 Q.9 Q.10		solid crystal. Explain the structure of silicon with the help of proper diagram. <u>SECTION C</u> Answer the following : (ANY 2) 6 Explain the concept of energy band gap. Explain in detail the forward biasing of a p- n junction. What us zero biased p-n junction diode? Draw its diagram. <u>SECTION D</u> Answer the following : (ANY 1) 4 Explain how solids are classified on the basis of band theory of solids. Write note on : 1) Electric devices i) Electronic devices
Q.2 : i i Q.3 : Q.4 :	i) Define ex Answer How doe very with	eV? trinsic se <u>SECTIO</u> the follor es conduce tempera	miconductor. <u>DN B</u> wing : (ANY 2) ctivity of semicond				

