

## NAT I Medical Physics

Sr	Questions	Answers Choice
1	Radio waves of constant amplitude can be generated with	A. Rectifier B. Filter C. FET D. Oscillator
2	Copper and germanium are cooled to 70 K from room temperature then	A. Resistance of copper increases while that of germanium decreases B. Resistance of copper decreases while that of germanium increases C. Resistance of both decreases D. Resistance of both increases
3	When n-type of semiconductor is heated	A. Number of electrons increases while that of holes decreases B. Number of holes increases while that of electrons decreases C. Number of electrons and holes remains same D. Number of electrons and holes increases equally
4	The part of a transistor which is heavily doped to produce large number of majority carriers is	A. Emitter B. Base C. Collector D. Any of the above depending on nature of transistor.
5	A p-n junction has a thickness of the order of	A. 1 cm B. 1 mm C. 10 <sup>-6</sup> cm D. 10 <sup>-12</sup> cm
6	When boron is added as an impurity to silicon the resulting material is	A. n type conductor B. n type semiconductor C. p-type conductor D. p-type semiconductor
7	When we apply reverse bias to a junction diode it	A. Lowers the potential barrier     B. Raises the potential barrier     C. Increase the majority carrier current     D. Decrease the majority carrier current
8	In a common base transistor circuit the current gain is 0.98.On changing the emitter current by 5.00 mA, the change in collector current is:	A. 0.196 mA B. 2.45 mA C. 4.9 mA D. 5.1 mA