Novishir Monvandia 2020 CS10348 (A7) a) We can find direct and indirect band gape in a sensionalitating material by measuring me photons and me phonous suleased when an electron goes from a higher state to a lower state. The photon released will tell us my direct & band gap this = difference ni invigies = me energy of photon. While phanon with tell us me indirect band gap, phonon having waterector = diff sink value of the both.

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L020 CS10248

Q7) b)

S= 300 MV/K

△0= 100 K

V= SD0

= 300 × 10 -6 × 100

= 300 × 10-4 V

- C) Di)Temp dufferein actross a solid produces end which can draw coverent through load (party granties) to produce electricity
 - Druving current meangh he same sold which will result in heating of one side and cooling of another-which can be used for represented
 - in) Body heat could be used to komer watches
 - iv) Use of waste best like from frutton on heating of engine.