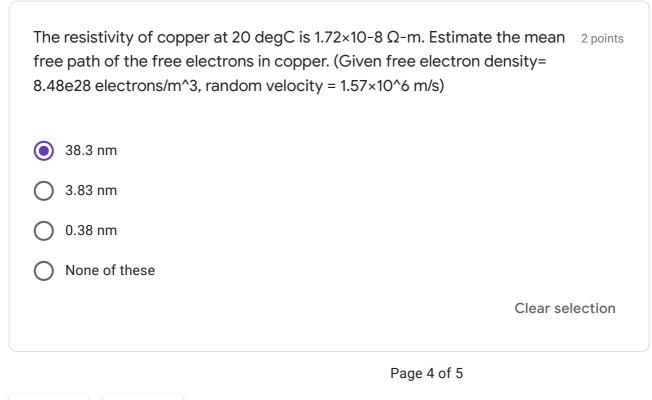
Physics of Materials and Nuclei - MidSem

210310470128@med.svnit.ac.in Switch account \odot Your email will be recorded when you submit this form Magnetic materials, Conductors and Superconductors Pick the correct option(s): 1 point No electrostatic field exists inside a conductor and hence no current can flow through Electrostatic field can exist inside the conductor when current flows through it Electrostatic field cannot exist inside the conductor when current flows through it None of these Pick the correct option(s) about the Free Electron Gas theory: 1 point Free electrons move with random velocity determined by its velocity distribution function Free electrons are considered as classical particles Inter-particle interactions are neglected All of the above

All the atoms in a domain have permanent magnetic moment
Domain theory cannot be applied in ferromagnetic material beyond certain temperature
There is sudden transition of magnetic moment from one domain to the neighbouring domain
✓ All of the above
If the susceptibility of a magnesium at 300 K is given to be 1.2e-5 then at 200 K temperature, how much susceptibility will be observed
1.25e-5
1.8e-5
O.8e-5
Independent of temperature
Independent of temperature Clear selection
Find the drift velocity of the free electrons in a copper wire whose cross 2 points section area is A=1.0 mm^2 when the wire carries a current of 1.0 A. Assume that each copper atom contributes one electron to the electron
Find the drift velocity of the free electrons in a copper wire whose cross 2 points section area is A=1.0 mm^2 when the wire carries a current of 1.0 A. Assume that each copper atom contributes one electron to the electron gas and n = $8.5e28$ electrons/m^3.
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