Course convenor: Dr. Mohammad Abdur Rashid

Course title: Condensed Matter Physics

Course code: PHY 5111

Contact: rashid@just.edu.bd



Quiz # 1 | Time: 20 min | Date: 07/08/2021

For MS first semester (2019-2020) students who are attending Condensed Matter Physics (PHY 5111) course.

* Required

Email *

Your email

Your full name: *

Your answer

Q1: What are the assumptions made in constructing the Hamiltonian for free Fermi gas?

Your answer

Q2: For gold the conduction band electron density is 5.90x 10^{28} 1/m^3. 4 points What are the values of Fermi velocity and Fermi temperature?

Your answer



Q3: Write down the characteristics of Fermi Function. 4 points Your answer Q4: Define Fermi energy. 2 points Your answer Q5: Why is the derivative of Fermi function only nonzero over an energy 2 points range of order kT (k is Boltzmann constant) around the Fermi energy? Your answer Q6: State and explain the Bloch's Theorem. 4 points Your answer

A copy of your responses will be emailed to the address you provided.

Submit

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