

Katwa College
B.Sc. Semester – V (Honours) Internal Examination – 2021
Subject – Physics
Paper CC XII -Solid State Physics

Time – 1 h

Full Marks: 10

Answer any five questions:

2x5=10

1. What do mean by lattice and unit cell?
2. What do you mean symmetry operation? Write down the name of symmetry operation?
3. What it is atomic packing fraction? Determine the atomic packing fraction of FCC lattice
4. What are Miller's Indices? Draw (111) plane.
5. What do you mean by phonons? Name the different of phonons.
6. State Curie Law of paramagnetism.
7. What are domains in ferromagnetism?
8. What do you mean by polarizabilty? Write down the sources of polarizabilty.
9. What is Meissner effect?
10. What are type-I and type- II Superconductor?

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