Guwahati, Assam, India
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07-09-2023
Class Test 1
5th Sem(Major)
Paper: 5026

Time: 1 hr   Marks: 20

1. Write one prominent distinction between crystalline and amorphous solids. 1
2. What do you mean by lattice translation vector? 1
3. Define primitive unit cell. 1
4. How to construct reciprocal lattice? 1
5. How many crystal systems and Bravais lattices are there in 3D? 1
6. Why crystal diffraction is not possible with white light? 2
7. Mention the symbolic representations of the ten 2D point groups associated
   with the combination of reflection and rotation symmetries. 2
8. Draw the Miller planes: (110) & (200) 3
9. Draw Monoclinic Bravais lattices and mention the lattice parameters. 4
10. Derive Bragg's law. 4

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