



Seat No.	
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T.Y. B.Sc. (Semester – IV) Examination, 2013
PHYSICS (Paper – I)
PH – 341 : SOLID STATE PHYSICS
(New Course) (2008 Pattern)

Time : 2 Hours

Max. Marks : 40

- N.B. :** 1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*
3) *Use of log tables and calculators is allowed.*

1. Attempt **all** of the following (1 mark each) :

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- a) The minimum angle of rotation for a certain crystal structure which leave it invariant is 120° . Find fold n_0 (n).
- b) What is Fermi energy level ?
- c) Determine the number of atoms per unit face centred cubic cell.
- d) What are the Miller indices of a plane having intercepts $(1, \infty, \infty)$ on three x, y and z axes ?
- e) What do you mean by 'domains' in ferromagnetic materials ?
- f) State Fermi-Dirac distribution function.
- g) Give any two examples of ferrimagnetic materials.
- h) What is photoelectric effect ?
- i) In Bragg's diffraction condition if $d = 1.5 \text{ \AA}$, then what is upper limit of λ for obtaining first order reflection ?
- j) What is mobility ?

2. Attempt **any two** :

- a) Describe the crystal structures (i) NaCl and (ii) CsCl with the help of neat diagrams.
- b) Using Ewald's construction, show that diffraction condition in reciprocal lattice is exactly equivalent to $2d \sin \theta = n\lambda$ in direct lattice.
- c) What are ferrites ? Give any two examples and six applications of ferrites.

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P.T.O.

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