

Total No. of Questions :4]

SEAT No. :

P598

[Total No. of Pages : 3

[5215] - 419

T.Y.B.Sc.

CHEMISTRY

CH-341 : Physical Chemistry

(2013 Pattern) (Paper - I) (Semester - IV)

Time : 2 Hours]

[Max. Marks :40

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicates full marks.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Use of calculator and logarithmic table is allowed.
- 5) Actual calculations must be shown while solving the problems.

Q1) Answer the following:

[10]

- a) Assuming the element exists as fcc lattice and the cell length is  $10.67 \text{ \AA}$ , determine the distance between 100 plane.
- b) Define De-Broglie wavelength.
- c)  $^{32}\text{P}$  has a half life of  $3.2 \times 10^4$  years, calculate its decay constant.
- d) Find Miller indices of a crystal planes which cuts the three axes at multiple unit distance  $\frac{1}{2}$ ,  $\frac{1}{3}$  and  $\infty$ .
- e) Write the cell reaction for the following cell  $\text{Pb}|\text{PbSO}_4|\text{H}_2\text{SO}_4(2\text{M})||\text{CuSO}_4(0.1\text{M})|\text{Cu}$ .
- f) Define average life.
- g) Define : EMF of a cell.
- h) Define centre of symmetry.
- i) If the EMF of the cell at  $20^\circ\text{C}$  and  $30^\circ\text{C}$  are 0.6973 and 0.6998 volt respectively, calculate its temperature coefficient.
- j) What is plateau voltage?

P.T.O.

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