

THE OPEN UNIVERSITY OF SRI LANKA
Foundation Programme in Science/Continuing Education Programme
LEVEL 2- ASSIGNMENT TEST 1 (NBT) 2006/2007
PSF 2303/PSE 2303 – CHEMISTRY
Answer Guide-Test Assignment I

MCQ

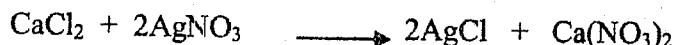
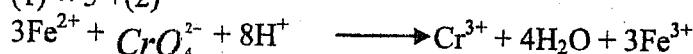
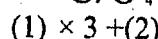
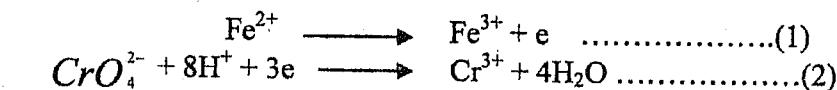
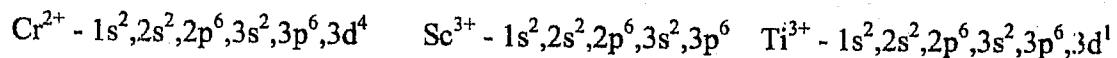
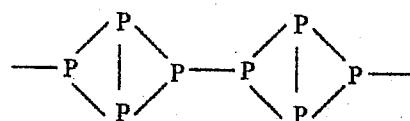
1. 4	4. 2	7. 2	10. 3	13. 2
2. 3	5. 4	8. 3	11. 4	14. 5
3. 5	6. 1	9. 5	12. 1	15. 5

Structured Essay

$$1(i) \quad C_{rms} = \left(\frac{3RT}{M} \right)^{1/2}$$

$$= \left(\frac{3 \times 8.314 \times J \times K^{-1} \times mol^{-1} \times 270 \times K}{8.3 \times 10^{-3} \times Kg \times mol^{-1}} \right)^{1/2}$$

$$= 9 \times 10^2 \text{ s}^{-1} \text{ m}$$



Amount of AgCl obtained = 4.498 g

$$\text{No of moles AgCl} \equiv 4.498 / 143.5$$

Amount of CaCl_2 moles

$$\text{Molarity of CaCl}_2 \text{ is } = 0.01567 \times 1000 \text{ mol dm}^{-3}$$

$$= 0.6268 \text{ mol dm}^{-3}$$