

SERIES 36 EXAMS

CHEMISTRY PP 233/3

MARKING SCHEME

- 1(a) CT - 1 - table completed with realistic temperature readings
 D.P - 1- 1 or 0 dips consistently used.
 A - 1 1st reading => 2 of s
 T 1 temperature increases then decreases.
- (i) Plotting - 1
 Scale - ½ plots cover at least half of the grid provided
 Axes – ½ both axes correctly labeled.

Or

- (ii) Peak temperature - temperature at O = ans (ii)
 (iii) $40\text{cm}^3 \times 1.0\text{gcm}^{-3} \times 4.2 \times DT =$ ans (a) (iii)
- (b) CT - 1
 D.P - 1
 A - 1
 P.A - 1
 F.A - 1
- (c)(i) $\frac{25}{100} \times 0.3 = 0.0075$
 $\underline{0.0075} = 0.00375$
 $\frac{2}{2}$
- (ii) $\frac{250}{1000} \times 0.000375 =$ ans c (ii)
 Average volume
- (iii) $\frac{40}{1000} \times 0.5 = 0.02$
- (d) 0.02 - ans c (ii) = ans (d)
- (e) $\frac{1}{Ans(d)} \times Ans(a) (iii)$

$$DH = \text{ans}$$

2(a)

OBSERVATION	INFERENCES
(a)(i) Effervescence/bubbles produced white ppt formed	CO_3^{2-}
(b)(i) Blue pp that does not dissolve in excess	Cu^{2+}
(ii) Blue ppt that dissolve in excess to form deep blue solution	Cu^{2+}
(ii) Brown solid deposited	Cu^{2+}
3 (a) Burn with yellow sooty flame	$-\text{C} = \text{C-}$ or $>\text{C} = \text{CT}$
(b) Turns from orange to green	$>\text{C- CT}$, $-\text{C} = \text{C-}$, $-\text{OH}$
(ii) Turns from orange to red	Acid solution
(iii) Effervescence /bubbles	H^+