

## ANSWERS TO IN-CHAPTER EXERCISES

A

1. (i) +7                      (ii) +5                      (iii) -1                      (iv) +7

2.

|                 | (i)              | (ii)                             | (iii)          | (iv)                                        | (v) |
|-----------------|------------------|----------------------------------|----------------|---------------------------------------------|-----|
| <b>Oxidised</b> | CN <sup>-</sup>  | C <sub>6</sub> H <sub>5</sub> OH | I <sup>-</sup> | S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> | C   |
| <b>Reduced</b>  | OCI <sup>-</sup> | O <sub>3</sub>                   | O <sub>3</sub> | Cl <sub>2</sub>                             | ZnO |

9.

(i) B                      (ii) D                      (iii) D                      (iv) C                      (v) B                      (vi) B  
 (vii) C                      (viii) D                      (ix) A

B

1. 0.2                      2. 1, 1                      3. 10/91                      4. 99.37 %, 268.96 mL                      5. 40 mL  
 6. 1.5 mol                      7. (i) 0.235 N                      (ii) 7.43 g/L                      8. 0.1 %                      9. (i) D                      (ii) C

C

1. 1.68 vol                      2. 15.875 %                      3. 54.76 %                      4. 2 mL                      5.  $9.52 \times 10^{-3}$                       6. 117, 46.8  
 7. 10 %                      8. (i) 178.5                      (ii) 47.33                      (iii) 271                      9. (i) B                      (ii) D                      (iii) C  
 (iv) B                      (v) B                      (vi) A                      (vii) D                      (viii) D