

DPP # 01 WITH ANSWER

1.

- Ans.** (i) 32 g (ii) 28 g (iii) 46 g (iv) 18 g
(v) 17 g (vi) 92 g (vii) 64 g (viii) 98g
(ix) 44 g (x) 180 g (xi) 60 g (xii) 342 g
(xiii) 249.5 g

2.

- Ans.** (i) 1 (ii) 2 (iii) 2 (iv) 4
(v) 3×10^{-3} (vi) 3×10^{-3} (vii) 0.5×10^{-3} (viii) 0.25×10^{-3}

3.

- Ans.** (i) 1 (ii) $1 \times N_A$ (iii) 6 (iv) 12
(v) 6 (vi) $6N_A$, $12N_A$, $6N_A$ (vii) $24N_A$

4.

- Ans.** (i) 0.5 (ii) 1, 0.5, 2 (iii) $0.5N_A$ (iv) N_A , $N_A/2$, $2N_A$
(v) $3.5N_A$

5.

- Ans.** (i) 3 (ii) $3N_A$ (iii) 6, 6, 12 (iv) $6N_A$, $6N_A$, $12N_A$
(v) $24N_A$

6.

- Ans.** (i) $n = 2$ (ii) $n = 2.5$ (iii) $n = 2$ (iv) $P = 50 \text{ atm}$
(v) $P = 74.8 \text{ Pa}$ (vi) $T = 1000 \text{ K}$ (vii) $V = 2 \text{ L}$ (viii) $P = 2500 \text{ Pa}$

7.

- Ans.** (i) 45.4 L (ii) 5.675 L (iii) 11.35 L (iv) 90.8 L

8.

- Ans.** (i) 1 (ii) 2
(iii) 2×10^{-3} (iv) 5×10^{-4}
(v) 0.1 (vi) 5000