

For loop BCDEB

$$3 + 1R + 4 \times 0 - 6 = 0$$

1/2

$$\therefore 1R = 3$$

Substituting the value of current I,

$$\frac{3}{2} \times R = 3$$

$$\therefore R = 2 \Omega$$

1/2

Potential difference between A & D

Through path ABCD

$$+9V - 3V - IR = V_{AD}$$

$$+9 - 3 - \frac{3}{2} \times 2 = V_{AD}$$

$$\Rightarrow V_{AD} = 3V$$

[Alternatively through path AFD

1

$$\frac{3}{2} \times 2 = V_{AD}$$

$$\Rightarrow V_{AD} = 3V$$

3

(Note: Also accept any other logically valid approach leading to correct answer)

23.

(i)	Naming the characteristic property	1
(ii)	Showing density of nucleus is independent of mass number	2

(i) Saturation / short range nature of nuclear forces.

1

(ii) We have

$$R = R_0 A^{1/3}$$

1/2

$$\therefore \text{Density } \rho = \frac{mA}{\frac{4}{3}\pi (R_0 A^{1/3})^3}$$

$$= \frac{m}{\frac{4}{3}\pi R_0^3}$$

1/2

1/2

Hence  $\rho$  is independent of A

(Here  $m$  is the mass of the nucleus.)

1/2

3

# November 2012 Grade 12 Physics Question Paper

**Disha Experts**



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