

ANSWERS

1. 50 cm Or - 15 cm 2. $0.6\ \Omega$ 3. zero 4. zero Or $(n - 1)C$ 6. 134 7. $\frac{1}{213}^{\circ}C^{-1}$
9. $1.09 \times 10^7\ V$ 10. 313 N-m 11. (c) 12. (a) 13. (b). 14. (a)
15. (i) (d) (ii) (d) (iii) (c) (iv) (a) (v) (b) 16. (i) (b) (ii) (d) (iii) (c) (iv) (d) (v) (a) 18. 7.448 MeV
19. (i) 2.5 V 22. -30 cm 25. $1.32 \times 10^{-19}\ J$
27. (ii) 10 (iii) 4 28. 0.10 m or 1.2 J 32. (i) $5.3 \times 10^{-4}\ A$ (ii) (a) $1.28 \times 10^{-3}\ A$ (b) 13.4 T
33. (i) $2.65 \times 10^{-4}\ F$ (ii) $9.55 \times 10^{-3}\ H$ (iv) $18.87\ \Omega$ (v) $1.1 \times 10^3\ rad\ s^{-1}$ Or 270 V

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