Answers

I. (at):	2. (d)	3. (e)	4. (b)	5. (b)	6. (5)	T. (a)	8. (5)
9. (5)	10. (d)	11. (a)	12. (a)	13. (5)	14. (b)	15. (d)	16. (a)
17. (e)	18. (5)	19. (d)	20. (d)	21. (a)	22. (a)	23. (e)	24. (5)
25. (b, d)	26. (c, d)	27. (b, c)	28. (a, b)	29. (a, b)	30. (b, d)	31. (a, d)	33. (a, b)
33. (b, c)	34, (a, b, c)	35. (a, b).					

Solutions

1.
$$B = \frac{\mu_0 I}{4r} = \frac{4\pi \times 10^{-7} \times 8}{4 \times 10 \times 10^{-3}} T = 8\pi \times 10^{-6} T$$

$$P = BU$$

$$\frac{P}{I} = BI = 8\pi \times 10^{-4} \times 8 \text{ N m}^{-1} = \frac{64 \pi}{1000} \text{ mN m}^{-1}$$

2.
$$F = BId$$

acceleration = $\frac{BId}{m}$

Velocity = $\frac{BIdt}{m}$

3.
$$F = BU = 1.5 \times 10^{2} \times 10 \times 0.08 \text{ N} = 1.2 \times 10^{3} \text{ N}$$

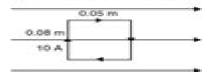


Fig. 204

$$\tau = 1.2 \times 10^{-9} \times 0.05 \text{ N m} = 6 \times 10^{-4} \text{ N m}.$$

4.
$$B = \frac{\mu_0 \cdot 2I}{r} - \frac{\mu_0 I}{r} = \frac{\mu_0 I}{r}$$

Now
$$B' = \frac{\mu_0(2I)}{2} = 2B$$

5.
$$S = \frac{Gl_g}{1 - I_g} = \frac{5 \times 1.5}{6 - 1.5} \Omega = \frac{7.5}{4.5} \Omega = \frac{5}{3} \Omega$$

6. Like currents attract and unlike currents repel



Fig. 205

The magnetic field set up by current in the coil is as follows:

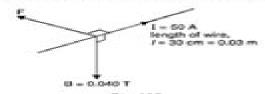
Since B_h , magnetic field experienced by the compacts is numerically equals to B_{ν} , the Borth's magnetic field, the resultant field is B as indicated in the diagram. Deflection of needle in compass is thus best illustrated in diagram A



Fig. 206

8.
$$S = \frac{50 \times 10 \times 10^{-3}}{1 - 10 \times 10^{-3}} \Omega = \frac{0.5 \times 100}{99} \Omega = \frac{50}{99} \Omega$$

9. Force acting on were has a magnitude given by



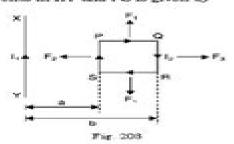
Fag. 207

$$F = I/B = (5.0)(0.03)(0.040) = 0.006 N$$

10.
$$B_1 = \sqrt{B^2 + B^3} = \sqrt{2B^2} = \sqrt{2}B$$

$$\frac{B_1}{B} = \frac{\sqrt{2}}{1}$$

 The forces on PQ and RS are equal in magnitude and opposite in direction. Hence, no net resultant force in the XY direction. The force per unit length on PS due to currents in XY and PS is given by



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Kathleen Armour

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