

Answers to examination-style questions

Answers	Marks	Examiner's tips
(30) Reasons for imperfect efficiency: - Thermal energy losses caused by the currents in the coils, which have resistance - Energy is required to magnetise, demagnetise and re-magnetise the core - Eddy currents induced in the core cause thermal energy losses in the core - Imperfect flux linkage: not all the magnetic flux produced by the primary coil passes through the secondary coil.	any 2	No real transformer can ever be 100% efficient, but practical transformers do have very high efficiencies (approaching, and sometimes exceeding, 99%). Do not just write "heating" or "heat loss", try to give some detail of where and how the heat loss occurs.
6. (a) (i) Use of $\frac{N_s}{N_p} = \frac{V_s}{V_p}$ gives $\frac{N_s}{10000} = \frac{1.2}{250}$ gives which number of turns on secondary $N_s = 12.7$ or 13.	1 1	Correct use of the turns ratio equation (which is given in the Data Booklet) should lead to two easy marks. The answer works out to be 12.6, 12, but you must state it as a whole number. Transformers cannot have fractional numbers of turns!
(ii) Applying $P = I^2 R$ for one lamp gives current in each lamp $I = \sqrt{\frac{P}{R}} = \sqrt{\frac{50}{12}} = 2.5 \text{ A}$ Total current supplied by transformer $I_{\text{tot}} = 8 \times 2.5 = 20 \text{ A}$ $\therefore$ Total resistance of the lamps $R = \frac{V}{I_{\text{tot}}} = \frac{120}{20} = 6.00 \text{ } \Omega$	1 1 1	Part (a)(ii) depends on your familiarity with current electricity, covered in <i>AC Physics A Unit 1</i>. Alternative solutions are possible. For example total power supplied $= 8 \times 50 = 240 \text{ W}$ and using $P = \frac{V^2}{R}$ gives $R = \frac{V^2}{P} = \frac{120^2}{240} = 6.00 \text{ } \Omega$
(iii) If transformer is perfectly efficient, primary power = secondary power (or $I_p V_p = I_s V_s$) Power input = primary power = secondary power = power output $= 8 \times 30$ $= 240 \text{ W}$	1 1 1	If a device is perfectly efficient, the energy supplied to it per second is equal to the energy it supplies per second. Alternative solution: $P_{\text{out}} = I_s V_s = 20 \times 12 = 240 \text{ W}$ Since the transformer is perfectly efficient, $P_{\text{in}} = P_{\text{out}} = 240 \text{ W}$

Aqa Examination Style Questions Answers Physics

Chapter 1

Ted Lister, Janet Renshaw



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Table of Contents Aqa Examination Style Questions Answers Physics Chapter 1

1. Understanding the eBook Aqa Examination Style Questions Answers Physics Chapter 1
 - The Rise of Digital Reading Aqa Examination Style Questions Answers Physics Chapter 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Aqa Examination Style Questions Answers Physics Chapter 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aqa Examination Style Questions Answers Physics Chapter 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa Examination Style Questions Answers Physics Chapter 1
 - Personalized Recommendations
 - Aqa Examination Style Questions Answers Physics Chapter 1 User Reviews and Ratings

- Aqa Examination Style Questions Answers Physics Chapter 1 and Bestseller Lists
- 5. Accessing Aqa Examination Style Questions Answers Physics Chapter 1 Free and Paid eBooks
 - Aqa Examination Style Questions Answers Physics Chapter 1 Public Domain eBooks
 - Aqa Examination Style Questions Answers Physics Chapter 1 eBook Subscription Services
 - Aqa Examination Style Questions Answers Physics Chapter 1 Budget-Friendly Options
- 6. Navigating Aqa Examination Style Questions Answers Physics Chapter 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Aqa Examination Style Questions Answers Physics Chapter 1 Compatibility with Devices
 - Aqa Examination Style Questions Answers Physics Chapter 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aqa Examination Style Questions Answers Physics Chapter 1
 - Highlighting and Note-Taking Aqa Examination Style Questions Answers Physics Chapter 1
 - Interactive Elements Aqa Examination Style Questions Answers Physics Chapter 1
- 8. Staying Engaged with Aqa Examination Style Questions Answers Physics Chapter 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aqa Examination Style Questions Answers Physics Chapter 1
- 9. Balancing eBooks and Physical Books Aqa Examination Style Questions Answers Physics Chapter 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aqa Examination Style Questions Answers Physics Chapter 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aqa Examination Style Questions Answers Physics Chapter 1
 - Setting Reading Goals Aqa Examination Style Questions Answers Physics Chapter 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aqa Examination Style Questions Answers Physics Chapter 1
 - Fact-Checking eBook Content of Aqa Examination Style Questions Answers Physics Chapter 1
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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