

**QUESTION 5: SINGLE-PHASE TRANSFORMERS**

- 5.1 Core type ✓  
Shell type ✓ (2)
- 5.2 5.2.1 Auto-transformer: To regulate transmission line voltages to the required value ✓ OR  
Used in low power applications to connect circuits with different voltage classes (1)
- 5.2.2 Centre tap transformer: Power supply rectifiers circuit. ✓ (1)
- 5.3 Lenz's law states that an induced electric current flows in a direction ✓ such that the current opposes the change that induced it. ✓ (2)
- 5.4 The operation of the transformer is based on the principle of mutual induction (Faraday's law of mutual induction).  
When an alternating voltage is applied to the primary winding, an alternating flux is set up in the core ✓ which links with the secondary winding ✓, inducing in it an emf of the same frequency ✓. This is known as mutual inductance.  
If a load is connected to the secondary winding, a current will flow through it ✓. Power is therefore transferred entirely magnetically from the primary ✓ to secondary winding. ✓ (6)
- 5.5 Copper losses ✓  
Iron losses ✓  
Dielectric losses ✓  
Stray losses (3)
- 5.6 5.6.1  $\frac{N_p}{N_s} = \frac{V_p}{V_s}$  ✓  
 $\frac{15}{1} = \frac{2200}{V_s}$  ✓  
 $V_s = 146.68V$  ✓ (3)
- 5.6.2 Primary current  
 $S = V_p \times I_p$   
 $I_p = \frac{S}{V_p}$  ✓  
 $= \frac{50000}{2200}$  ✓  
 $= 22.73A$  ✓ (3)
- 5.6.3 Secondary current  
 $\frac{N_p}{N_s} = \frac{I_s}{I_p}$  ✓  
 $\frac{15}{1} = \frac{I_s}{22.73}$  ✓  
 $I_s = 340.91A$  ✓ (3)
- [24]

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**Yijin Wang**



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## **Table of Contents Grade 11 Electrical Technology Exemplar P2 May Jun 2014**

1. Understanding the eBook Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - The Rise of Digital Reading Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - 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 Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - Personalized Recommendations
  - Grade 11 Electrical Technology Exemplar P2 May Jun 2014 User Reviews and Ratings
  - Grade 11 Electrical Technology Exemplar P2 May Jun 2014 and Bestseller Lists
5. Accessing Grade 11 Electrical Technology Exemplar P2 May Jun 2014 Free and Paid eBooks
  - Grade 11 Electrical Technology Exemplar P2 May Jun 2014 Public Domain eBooks
  - Grade 11 Electrical Technology Exemplar P2 May Jun 2014 eBook Subscription Services
  - Grade 11 Electrical Technology Exemplar P2 May Jun 2014 Budget-Friendly Options
6. Navigating Grade 11 Electrical Technology Exemplar P2 May Jun 2014 eBook Formats

- ePub, PDF, MOBI, and More
  - Grade 11 Electrical Technology Exemplar P2 May Jun 2014 Compatibility with Devices
  - Grade 11 Electrical Technology Exemplar P2 May Jun 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - Highlighting and Note-Taking Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - Interactive Elements Grade 11 Electrical Technology Exemplar P2 May Jun 2014
8. Staying Engaged with Grade 11 Electrical Technology Exemplar P2 May Jun 2014
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 11 Electrical Technology Exemplar P2 May Jun 2014
9. Balancing eBooks and Physical Books Grade 11 Electrical Technology Exemplar P2 May Jun 2014
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 11 Electrical Technology Exemplar P2 May Jun 2014
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade 11 Electrical Technology Exemplar P2 May Jun 2014
- Setting Reading Goals Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 11 Electrical Technology Exemplar P2 May Jun 2014
- Fact-Checking eBook Content of Grade 11 Electrical Technology Exemplar P2 May Jun 2014
  - 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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