

QUESTION 1 (10 marks)

You are the Manager of Electrical Engineering at an underground coal mine that intends to purchase equipment for an additional development panel. The equipment will be mining a seam known to contain methane and carbon dioxide which will be pre-drained prior to mining.

The panel is to comprise a remote controlled continuous boiler miner, 2 electric shuttle cars, auxiliary fan and ratio feeder. The equipment is to be powered from a substation located outside the hazardous zone and a distribution and control box (DCB) located within the hazardous zone.

- a) Draw a single line diagram from the substation to the DCB, then from the DCB to all machines within the section nominating: (5 marks)
 - i) Cable sizes
 - ii) Approximate max lengths of cable
 - iii) Size of substation in KVA
 - iv) Approximate maximum demand for each item of plant

- b) Draw a single line diagram for the distribution and control box and nominate on the single line diagram the types of protection that you would specify and expected fault levels at the: (4 marks)
 - i) Secondary side of the substation
 - ii) DCB
 - iii) Boiler miner

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Lauren Gardner



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Table of Contents Engineering Science N1 Question Paper And Memos

1. Understanding the eBook Engineering Science N1 Question Paper And Memos
 - The Rise of Digital Reading Engineering Science N1 Question Paper And Memos
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Science N1 Question Paper And Memos
 - 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 Engineering Science N1 Question Paper And Memos
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Science N1 Question Paper And Memos
 - Personalized Recommendations
 - Engineering Science N1 Question Paper And Memos User Reviews and Ratings

- Engineering Science N1 Question Paper And Memos and Bestseller Lists
- 5. Accessing Engineering Science N1 Question Paper And Memos Free and Paid eBooks
 - Engineering Science N1 Question Paper And Memos Public Domain eBooks
 - Engineering Science N1 Question Paper And Memos eBook Subscription Services
 - Engineering Science N1 Question Paper And Memos Budget-Friendly Options
- 6. Navigating Engineering Science N1 Question Paper And Memos eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Science N1 Question Paper And Memos Compatibility with Devices
 - Engineering Science N1 Question Paper And Memos Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Science N1 Question Paper And Memos
 - Highlighting and Note-Taking Engineering Science N1 Question Paper And Memos
 - Interactive Elements Engineering Science N1 Question Paper And Memos
- 8. Staying Engaged with Engineering Science N1 Question Paper And Memos
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Science N1 Question Paper And Memos
- 9. Balancing eBooks and Physical Books Engineering Science N1 Question Paper And Memos
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Science N1 Question Paper And Memos
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Science N1 Question Paper And Memos
 - Setting Reading Goals Engineering Science N1 Question Paper And Memos
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Science N1 Question Paper And Memos
 - Fact-Checking eBook Content of Engineering Science N1 Question Paper And Memos
 - 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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