

QUESTION 12 (18 marks)

Based on the Entity concept parameters detailed below:

IS POWER SUPPLY		IS SOLENOID	
U ₀	11.2V	U ₁	12V
I ₀	2A	I ₁	2.5A
C ₀	15 μ F	C ₁	10 μ F
L ₀	95mH	L ₁	5mH
L/R	50 μ H/10m		

Cable Parameters are: Capacitance = 8 fF/m
Inductance = 0.5 μ H/m
L/R = 80 μ H/10m

- Given the capacitance values for the power supply, cable and solenoid, what will be the maximum permitted cable length? (2 Marks)
- In considering your answer for part a), and the inductance values of each component, what can the maximum length of the cable be? (2 Marks)
- The solenoid is controlled from an output of the relay mounted in the main enclosure on the machine. The output contact of the relay is not shown in the parameter drawing above. Does it need to be considered when evaluating the circuit parameters? (1 Mark)
- What information would you expect to be displayed on the nameplate of the solenoid? (2 Marks)
- The label on the solenoid has "T2" marked on it. What specific installation requirement would have to be in place for this solenoid to be used on a continuous miner? (1 Mark)

Mechanical Engineering N1 Question Papers

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Table of Contents Mechanical Engineering N1 Question Papers

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

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