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INDUSTRIAL ELECTRONICS N2 DC THEORY AUGUST 2021 QUESTION 2 @mathszoneafricanmotives - INDUSTRIAL ELECTRONICS N2 DC THEORY AUGUST 2021 QUESTION 2 @mathszoneafricanmotives by Maths Zone African Motives 5,196 views 1 year ago 16 minutes - Join this channel to get access to perks: https://www.youtube.com/channel/UC66ip_wSl8B4iy5Lx-uZF0pw/join.

DC MACHINES PART 1 BY MR. ONYANGO - DC MACHINES PART 1 BY MR. ONYANGO by JEMSHAH E-LEARNING 49,722 views 3 years ago 30 minutes - JEMSHAH E-**LEARNING**, PLATFORM TO GET NOTES FOR THE ABOVE VIDEOS FOLLOW THE LINKS BELOW TO DOWNLOAD ...

Are You an Electrician? These are 5 Formulas You Should Know! - Are You an Electrician? These are 5 Formulas You Should Know! by Electrician U 692,797 views 1 year ago 17 minutes - Being a great electrician requires a strong knowledge of math. We use it daily from bending conduit, to figuring out what wire to ...

Intro

Jules Law

Voltage Drop

Capacitance

Horsepower

How to Pass an Electrical Aptitude Test - How to Pass an Electrical Aptitude Test by Online Training

for Everyone 5,262 views 6 months ago 13 minutes, 47 seconds - An **Electrical**, Aptitude Test is a assessment tool used to evaluate an individual's understanding of **electrical**, concepts, ...

Definitions

Identify the relay?

Series & Parallel Circuit

Mechanical Comprehension Tests (Questions and Answers) - Mechanical Comprehension Tests (Questions and Answers) by CareerVidz 178,902 views 5 years ago 13 minutes, 13 seconds -

In this video tutorial, you will **learn**,: - Mechanical Comprehension Tests; - Bennett Mechanical Comprehension Tests; - Levers and ...

Intro

Welcome to this tutorial!

A glass beaker contains oil and water as depicted below. If more water is poured into the beaker, how will it look (A, B or C)?

A truck containing petrol is travelling at 40 MPH in the direction of the large arrow. If it had to suddenly brake, which diagram best demonstrates what would happen to the petrol the truck is transporting, at the time of braking suddenly?

Which rope is needed to support the load on the crane?

Which way would you turn the bolt in order to tighten it?

How much weight should be placed at point X to balance the beam?

If the following vinyl record spins at 45 rpm for 2 minutes, which point will make the greatest number of revolutions? If you believe they will all revolve an equal number, select D as your answer

STAR Interview Technique - Top 10 Behavioral Questions - STAR Interview Technique - Top 10 Behavioral Questions by Don Georgevich 531,014 views 5 years ago 26 minutes - Learn, how to **answer**, "behavioral interview questions" or competency interview questions using the STAR interviewing method.

Intro

Behavioral Question 1

Behavioral Question 2

Behavioral Question 3

Behavioral Question 4

Behavioral Question 5

Behavioral Question 6

Behavioral Question 7

Behavioral Question 8

Behavioral Question 9

Behavioral Question 10

Outro

IBEW Electrical Apprenticeship Math Aptitude Test Prep - Top 12 Skills You Need to Pass - IBEW Electrical Apprenticeship Math Aptitude Test Prep - Top 12 Skills You Need to Pass by The Complete Guide to Everything 141,922 views 1 year ago 41 minutes - If you are applying for an apprenticeship through **IBEW**, then you need to pass the aptitude test. Typically students find the math ...

Start

1. How to Find Number Patterns

2. Finding a Percentage of a Number

3. Compound Interest Tricks

4. Converting a Percentage to a Fraction

5. Multiplying Fractions

6. Dividing Fractions

7. Adding and Subtracting Fractions

8. Evaluating an Expression

9. Multiplying Out Brackets (FOIL Method)

10. Solve Linear Equations

11. Factoring a Quadratic

12. Solve a Quadratic Equation (Quadratic Formula)

How does an Electric Motor work? (DC Motor) - How does an Electric Motor work? (DC Motor) by Jared Owen 16,688,015 views 3 years ago 10 minutes, 3 seconds - This video has been dubbed into a few different languages. You can change the audio track language in the Settings menu.

Intro

Circuits

Magnets

Electromagnets

Improvements to Electric Motor

Commutator and Brushes

Improving Torque

Devices with Motors

Brilliant

DC Machine: Construction And Working Principle (DC Motor & DC Generator) - DC Machine: Construction And Working Principle (DC Motor & DC Generator) by Electrical4U 517,876 views 10 years ago 8 minutes, 8 seconds - Comment below with any additional questions you have. If you enjoyed this video and want to see more like it, please LIKE and ...

Essential Parts of a Dc Machine

Parts of a Dc Machine

Field System

Field Magnet System

Core of Dc Machine

Construction of Armature

Commutator

Brushes

Journeyman Electrician Practice Test (20 Questions With Fully Answers) - Journeyman Electrician Practice Test (20 Questions With Fully Answers) by Electrician Practice Test 192,662 views 8 years ago 8 minutes, 6 seconds - Journeyman Electrician Practice Test (20 Questions With Fully **Answers**,). Take this free Practice exam to get a sample of the types ...

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Intro

WHAT DOES AN ENGINEERING APTITUDE TEST INCLUDE?

If cog A turns clockwise, how many cogs will turn anti-clockwise?

Which of the following tools would be most suitable for removing spark plugs from an engine?

Which of the following screws/bolts are least likely to round/strip the head and provide greater torque?

In which direction will the canoe travel if the canoeist loses his left paddle but continues to use the right one only?

When the right paddle is being used, the paddle is pushing against water on the right-hand side of the canoe. This force pushes the canoe to the left.

If the driver of the following right-hand drive car reverses whilst turning the wheel to the left, which direction will the trailer go?

Which direction is the truck moving? If the truck is stationary, select C for your answer.

How much weight should be placed at point X to balance the beam?

Both water buckets are filled to the top. Which water bucket most accurately demonstrates how water would leak from the bucket If 4 small holes were made on the side of the buckets?

The water pressure is higher at lower points of the bucket, causing water streams to go further.

A truck containing petrol is travelling at 40 mph in the direction of the large arrow. If it had to suddenly brake, which diagram best demonstrates what would happen to the petrol?

The following three trucks are parked on an incline. Their centre of gravity is identified by a dot. Which of the three HGVs is least likely to fall over?

How much force is required to lift the load?

How much weight is required to hold the load?

In the following electrical circuit which switch(es) will need to be closed to allow Bulbs B and C to illuminate?

If bulb 2 is removed, how many bulbs will illuminate?

When the switch is closed, how many bulbs will illuminate when bulb 3 is removed, and replaced with cable?

At which point will the beam balance?

Which rope is needed to support the load on the crane?

An aircraft carrier is travelling due east at 0.8 m/s with a current flow of 0.2 m/s due east. After 1 hour of travelling, how far has the ship travelled in kilometres?

A ship sails due West. It then changes course as shown on the dotted line. Which direction is it now travelling in?

Essential & Practical Circuit Analysis: Part 1- DC Circuits - Essential & Practical Circuit Analysis: Part 1- DC Circuits by Solid State Workshop 4,800,480 views 9 years ago 1 hour, 36 minutes - Table of Contents: 0:00 Introduction 0:13 What is circuit analysis? 1:26 What will be covered in this video? 2:36 Linear Circuit ...

Introduction

What is circuit analysis?

What will be covered in this video?

Linear Circuit Elements

Nodes, Branches, and Loops

Ohm's Law

Series Circuits

Parallel Circuits

Voltage Dividers

Current Dividers

Kirchhoff's Current Law (KCL)

Nodal Analysis

Kirchhoff's Voltage Law (KVL)

Loop Analysis

Source Transformation

Thevenin's and Norton's Theorems

Thevenin Equivalent Circuits

Norton Equivalent Circuits

Superposition Theorem

Ending Remarks

6.2 DC MOTORS - 6.2 DC MOTORS by W KIESER 19,396 views 2 years ago 5 minutes, 14 seconds - The classwork and activities for **DC**, Motors, for the N2 **Electrical**, Trade **Theory**, Curriculum.

UNIT 6.2 DC MOTORS

DRAW AND LABEL THE CIRCUIT DIAGRAM FOR A SHUNT MOTOR. (W. KIESER)

DRAW AND LABEL A MANUAL FACE PLATE STARTER CONNECTED TO A SERIES MOTOR

ELECTRICAL COMPREHENSION TEST Questions & Answers! (Electrical Test PRACTICE Questions!) - ELECTRICAL COMPREHENSION TEST Questions & Answers! (Electrical Test PRACTICE Questions!) by CareerVidz 131,597 views 3 years ago 17 minutes - This tutorial is perfect for all types of **electrical**, tests and assessments, including: 1. **Electrical**, exams and tests; 2. **Electrical**, ...

Intro

Electrical comprehension tests are used to assess your competence in the use of electrical concepts.

SAMPLE QUESTION: What does the following symbol represent?

In the following circuit, what happens if the switch remains open?

In the following circuit, if switch A closes and switch B remains open, what will happen?

In the following circuit, with switch A open, which bulbs are illuminated (if any)?

If switch B remains open, what will happen? 12 V Battery

In the following electrical circuit, if switch A closes and switch B and switch C remain open, what will happen?

In the following circuit, how many bulbs will illuminate if switch 3 closes?

In the following circuit, how many bulbs will illuminate if switches 1 and 5 close?

Which of the following symbols represents a speaker? TIMER

Which of the following symbols represents a heating element?

Which of the following symbols represents a variable TIMER

ELECTRONIC CIRCUIT SYMBOLS

Which type of electrical device only allows current in one direction?

What is covered on wires to guard the

Try another one...

What does the DC stand for in the term 'DC electricity'?

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