

**PLC Questions**

1. What are the advantages of PLCs over Hard wired Relay?

**Answer:**

PLCs are highly reliable, easily programmable. Small and inexpensive, PLCs can be designed with the communication capabilities so they can converse with the local or remote computer. They can sustain in robust environment less maintenance.

2. What are the two types of PLC input/output devices and give two examples for each one?

**Answer:**

a). Digital I/O – Digital field input devices egs. are Push buttons and limit switches.

Digital field output devices egs. are relays, solenoid valves, motor starters.

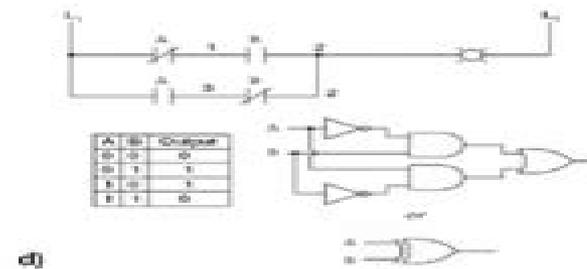
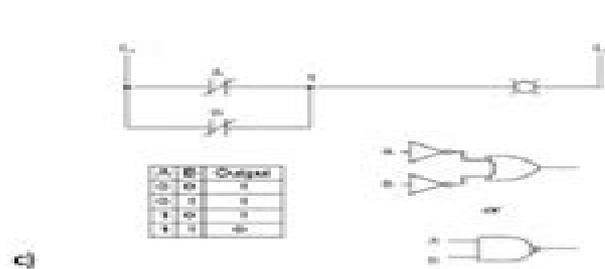
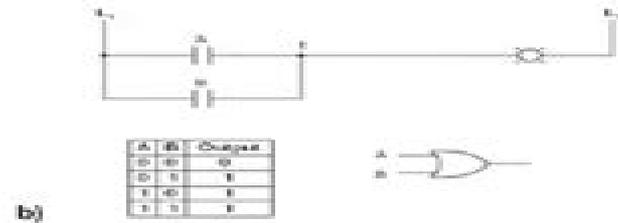
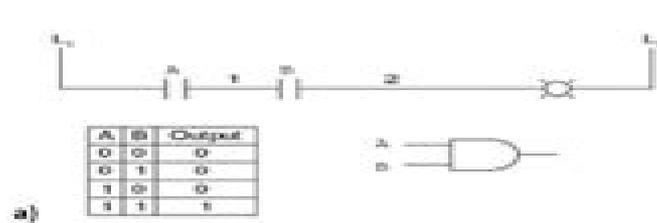
b). Analog I/O – Analog inputs are pressure, temperature and speed.

Analog outputs are –voltage, PWM pulses, Valve position, speed.

3. Draw the relay ladder logic for the following logic functions:

a) AND b) OR c) NAND d) EX-OR

**Answer:**



# Plc Test Questions And Answers Mybooklibrary

**A. B. Lawal**



## **Plc Test Questions And Answers Mybooklibrary:**

*Plc Programming* Logic studio ladder platform,2020-11-30 This book is oriented to the people that work on and troubleshoot PLCs on the factory floor It is directed at the actual problems and conditions that will be encountered within a realistic setting The text is designed to present a clear concise picture of how PLCs operate to the person that wishes to learn more about them Working with Instructions We cover every available instruction necessary for beginners what each instruction does along with a short example for each You will also learn about communication settings and how to add additional devices to your control system Working with Tags Routines and Faults We show you how to create and use the various types of tags available along with all of the different data types that are associated with tags This guide also covers the finer details of routines UDTs and AOIs As well as providing guidance on how to account for typical problems and recover from faults All of which are essential to most programs A Real World Practical Approach Throughout the entire guide we reference practical scenarios where the various aspects we discuss are applied in the real world We made sure to include numerous examples as well as two full practical examples which brings together everything you will have learned in the preceding chapters Contents 1 CONTROL TASK DEFINITION 2 CONTROL STRATEGY 3 IMPLEMENTATION GUIDELINES 4 PROGRAM ORGANIZATION AND IMPLEMENTATION CREATING FLOWCHARTS AND OUTPUT SEQUENCES CONFIGURING THE PLC SYSTEM REAL AND INTERNAL I O ASSIGNMENT REGISTER ADDRESS ASSIGNMENT ELEMENTS TO LEAVE HARDWIRED SPECIAL INPUTDEVICE PROGRAMMING PROGRAM CODING TRANSLATION 5 DISCRETE I O CONTROL PROGRAMMING CONTROL PROGRAMMING AND PLC DESCRIPTIONS SIMPLE RELAY REPLACEMENT SIMPLE START STOP MOTOR CIRCUIT FORWARD REVERSEMOTOR INTERLOCKING REDUCED VOLTAGE START MOTOR CONTROL AC MOTOR DRIVE INTERFACE CONTINUOUS BOTTLE FILLING CONTROL LARGE RELAY SYSTEM MODERNIZATION STUDY GUIDE REVIEW QUESTIONS ANSWERS Programmable Logic Controllers Frank D. Petruzella,2016-03-16 This edition of Programmable Logic Controllers continues to provide an up to date introduction to all aspects of PLC programming installation and maintaining procedures No previous knowledge of PLC systems or programming is assumed Programmable Logic Controllers continues to provide an up to date introduction to all aspects of PLC programming installation and maintaining procedures Improvements have been made to every chapter The content applied programming examples instructor student resources including lesson PowerPoint presentations with simulated PLC program videos test generator LogixPro lab manual and activities manual With this edition students and instructors also have access to McGraw Hill Education s digital products Connect and SmartBook for the first time McGraw Hill Education s Connect is also available as an optional add on item Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need when they need it how they need it so that class time is more effective Connect allows the professor to assign homework quizzes and tests easily and automatically

grades and records the scores of the student s work Problems are randomized to prevent sharing of answers an may also have a multi step solution which helps move the students learning along if they experience difficulty

*The PLC Workbook* Keith Clements-Jewery,W. Jeffcoat,1996 The book provides an invaluable guide to the practical application of programmable logic controllers in machine and equipment control Only a minimal prior knowledge of machine control electronics or computers is assumed the reader is lead by means of simple explanations worked examples and practical exercises from the rudiments of control system components to a reasonable level of PLC competency

PLC Programming Using RSLogix 500 and Real World Applications A. B. Lawal,2019-12-23 How This Book Can Help You This book is aimed at students electricians technicians and engineers who want to learn PLC programming from scratch It covers the fundamental knowledge they need to start writing their very first ladder logic program on RSLogix 500 It also covers some advanced knowledge of PLCs they need to become experts in programming PLCs After reading this book you should have a clear understanding of the structure of ladder logic programming and be able to apply it to real world industrial applications The best way to master PLC programming is to use real world situations to practice The real world scenarios and industrial applications taught in this book will help you learn better and faster many of the functions and features of the RSLogix 500 using programmable logic controllers The methods presented in this book are those that are usually employed in the real world of industrial automation and they may be all that you will ever need to learn The information in this book is very valuable not only to those who are just starting out but also to anybody looking for a way to improve their skills in PLC programming Merely having a PLC user manual or referring to its help contents is far from sufficient in becoming a skillful PLC programmer Therefore this book is extremely useful for building PLC programming skills First it will give you a big head start if you have never programmed a PLC before Then it will teach you more advanced techniques you need to learn design and build anything from simple to complex programs on the RSLogix 500 platform One of the questions I get quite often is where can I get a free download of RSLogix 500 to practice I provide in this book links to a free version of RSLogix 500 and a free version of RSLogix Emulate 500 for simulating real PLCs So you don t even need to buy a PLC to learn run and test your ladder logic programs I do not only show you how to get these important Rockwell Automation software for free and without hassle I also show with crystal clear screenshots how to install configure navigate and use them to write ladder logic programs

PLC Controls with Structured Text (ST), V3 Tom Mejer Antonsen,2020-07-23 This book gives an introduction to the programming language Structured Text ST which is used in Programmable Logic Controllers PLC The book can be used for all types of PLC brands including Siemens Structured Control Language SCL and Programmable Automation Controllers PAC This 3rd edition has been updated and expanded with many of the suggestions and questions that readers and students have come up with including the desire for many more illustrations and program examples

CONTENTS Background benefits and challenges of ST programming Syntax data types best practice and basic ST programming IF THEN ELSE CASE FOR CTU TON STRUCT

ENUM ARRAY STRING Guide for best practice naming troubleshooting test and program structure Sequencer and code split up into functions and function blocks FIFO RND sorting scaling toggle simulation signals and digital filter Tank controls conveyor belts adaptive pump algorithm and robot control PLC program structure for pumping stations 3D car park and car wash Examples From Ladder Diagram to ST programming The book contains more than 150 PLC code examples with a focus on learning how to write robust readable and structured code The book systematically describes basic programming including advice and practical examples based on the author s extensive industrial experience The author is Bachelor of Science in Electrical Engineering B Sc E E and has 25 years experience in specification development programming and supplying complex control solutions and supervision systems The author is Assistant Professor and teaches PLC programming at Dania Academy a higher education institution in Randers Denmark The author has published several books and sold more than 10 000 copies

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web an integrated circuit voltage regulator a voltage regulator is a system designed to automatically maintain a constant voltage a voltage regulator may use a simple feed forward design or may include negative feedback it may use an electromechanical mechanism or electronic components

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web st offers a set of monolithic multifunction alternator voltage regulators that include a control section the field power stage a fault diagnostic circuit to drive a warning light and integrated protection against short circuits

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web the l9409 is a monolithic multifunction alternator voltage regulator intended for use in automotive applications the device regulates the output of an automotive generator by controlling the field winding current by means of either an analog fixed frequency pwm signal or digital fixed frequency pwm signal lrc

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web figure 1 using an automotive alternator as a generator if you obtain two alternators you may use one as a generator and the other as a motor as described in an optional portion of this project the steps needed to prepare an alternator as a three phase generator and as a three phase motor are the same making the process easy to replicate

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web many cars also have an engine control module ecm regulating the alternator s voltage level through a specialized circuit these are considerably more advanced and as part of the fail safe circuit offer the ability to diagnose and describe potential problems

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web the regulator is the brain of the charging system it monitors both battery and stator voltages and depending on the

measured voltages the regulator will adjust the amount of rotor field current to control alternator output regulators can be mounted both internal or external current technology uses an internal regulator

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web abstract an automatic voltage regulator for an alternator consists essentially of a voltage sensitive element which controls through suitable apparatus the excitation of an alternator in the voltage regulator described herein the voltage sensitive element is

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web aug 27 2021 in automotive claw pole alternators voltage regulation is achieved through on off switching of field current between 2 set points e g 13 8 14 2 v for a 12v system the voltage regulator assembly supplies field current switched by a transistor via integral carbon brushes to the rotor slip rings

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web the 19911 is a monolithic multifunction alternator voltage regulator intended for use in automotive application it includes the control section the field power stage fault diagnostic circuit which drives a warning lamp and the protection against short circuits order code temp range c package

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web the cs3361 integral alternator regulator integrated circuit provides the voltage regulation for automotive 3 phase alternators it drives an external logic level n channel enhancement power fet for control of the alternator field current

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web aug 3 2023 there are three types of regulators electromechanical voltage regulators electronic voltage regulators and computer controlled voltage regulators the electromechanical voltage regulators have three electromagnetic switches with their own functions they are the cutout relay the regulator and the current regulator

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web the alternator comprises a cooling fan voltage regulator rotor stator diode bridge rectifier slip rings slip ring end bearings carbon brushes pulley the rotor and stator are the central units for electricity generation while the rectifier helps in converting ac to dc

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web jun 27 2021 fig 1 equivalent circuit of an alternator formula for voltage regulation of alternator voltage regulation is usually expressed as a fraction or percentage of the terminal voltage on load hence in general if v is the terminal voltage per phase for a given load and e o is the open circuit voltage i e no load terminal voltage per phase then

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web an alternator with a faulty voltage regulator will make a whining or humming noise as it receives inaccurate voltage signals from the regulator full fielding an alternator bypasses the voltage regulator and produces maximum voltage output charging voltage can be regulated using an electro mechanical electronic or computer controlled regulator

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web aug 28 2023 if the output voltage reading is 16 volts or higher there s an overcharging problem this usually indicates a bad voltage regulator if voltage seems to fluctuate during your test switch your voltmeter to the ac voltage scale and take another output voltage reading with the engine still running

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web feb 12 2023 the alternator voltage regulator circuit is a device that regulates the output of the alternator in a vehicle it ensures that the correct amount of power is being generated by the alternator and that the battery is receiving the correct amount of charge

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web alternator voltage regulator the mc33092a is specifically designed for voltage regulation and load response control lrc of diode rectified alternator charging systems as commonly found in automotive applications the mc33092a provides load response control of the alternator output current to eliminate engine speed