

BE 8251-BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

QUESTION BANK WITH ANSWERS

UNIT-1 ELECTRICAL CIRCUITS & MEASUREMENTS

PART-A:

1. State ohm's law.(N/D-2016)

The potential difference across any two ends of a conductor is directly proportional to the current flowing between the two ends provided the temperature of the conductor remains constant.

2. Compare moving coil and moving iron instruments.(N/D-2016)

S.No	M.C Instruments	M.I Instruments
1	More accurate	Less accurate
2	Uniform scale	Non-uniform scale (scale cramped at beginning and finishing)
3	Eddy current damping is used	Air friction damping is used
4	Controlling torque is provided by spring	Controlling torque is provided by gravity or spring

3. List the operating forces present in indicating instruments.(M/J-2016)

In an indicating instrument, it is essential that the moving system is acted upon by three distinct torque (or forces) for satisfactory working. These torques are:

1. A deflecting or operating torque, T_d
2. A controlling torque, T_c
3. A damping torque, T_v .

4. State ohm's law and its limitations.(N/D-2015)

Ohm's law:

The potential difference across any two ends of a conductor is directly proportional to the current flowing between the two ends provided the temperature of the conductor remains constant.

Limitation of Ohm's Law:

The limitations of Ohm's law are explained as follows: This law cannot be applied to unilateral networks. A unilateral network has unilateral elements like diode, transistors, etc., which do not have same voltage current relation for both directions of current.

5. Mention the errors in moving coil instruments.(N/D-2015)

The errors that usually occur in PMMC instruments are

1. The frictional error.
2. Temperature error.

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ALAM, MANSAF, ALAM, BASHIR



Basic Electrical Electronics Engineering Question Bank With Answers:

Basic Electronics & Communication Engineering: Electronics & Communication Short Questions and Answers Yashwant Kumar Parte, 2022-08-25 The book Basics of Electronics and Communication Engineering Short Question and Answers is written to cater the needs of students for review purpose at the Engineering or polytechnic level of Electronics and Communication Telecommunication Engineering streams The basic principles of the book are learning and motivation Easy explanation of practice problems and short answer type review questions are the principal features of this book

FUNDAMENTALS OF ELECTRICAL AND ELECTRONICS ENGINEERING, SECOND EDITION GHOSH, SMARAJIT, 2007-09-13 This second edition extensively revised and updated continues to offer sound practically oriented modularized coverage of the full spectrum of fundamental topics in each of the several major areas of electrical and electronics engineering Circuit Theory Electrical Measurements and Measuring Instruments Electric Machines Electric Power Systems Control Systems Signals and Systems Analog and Digital Electronics including introduction to microcomputers The book conforms to the syllabi of Basic Electrical and Electronic Sciences prescribed for the first year engineering students It is also an ideal text for students pursuing diploma programmes in Electrical Engineering Written in a straightforward style with a strong emphasis on primary principles the main objective of the book is to bring an understanding of the subject within the reach of all engineering students What is New to This Edition Fundamentals of Control Systems Chapter 24 Fundamentals of Signals and Systems Chapter 25 Introduction to Microcomputers Chapter 32 Substantial revisions to chapters on Transformer Semiconductor Diodes and Transistors and Field Effect Transistors Laplace Transform Appendix B Applications of Laplace Transform Appendix C PSpice Appendix E key Features Numerous solved examples for sound conceptual understanding End of chapter review questions and numerical problems for rigorous practice by students Answers to all end of chapter numerical problems An objective type Questions Bank with answers to hone the technical skills of students for viva voce and preparation for competitive examinations **INTERVIEW an INNERVIEW** V. Chellappan Iyer, 2018-08-28 Fall in Love with yourself first The interview selection committee of experts will definitely fall in Love with your persona and your career will zoom If you want to learn swimming jump into water No theories or lecture baazi on how to swim will help you If you want to be selected for in an interview jump into this work book Come out from that disease ha ha ha I know everything syndrome It s not what you know but how effectively you deliver matters X ray your personality Interview therapy of 3P 3M principles will make you employable job worthy Good luck **HURL EXAM PDF-HINDUSTAN URVARAK & RASAYAN LTD-SR ENGINEER-ENGINEER-ASSISTANT MANAGER EXAM-ELECTRONICS & COMMUNICATION ENGINEERING SUBJECT PRACTICE SETS** PDF Chandresh Agrawal, Nandini Books, 2025-08-05 The HURL EXAM PDF HINDUSTAN URVARAK RASAYAN LTD SR ENGINEER ENGINEER ASSISTANT MANAGER EXAM ELECTRONICS COMMUNICATION ENGINEERING SUBJECT PRACTICE SETS

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web a dfs based algorithm computes the connected components time complexity is $O(n + e)$ where n and e are number of nodes and edges respectively `graphconncomp g weak weakvalue` indicates whether to find weakly connected components or strongly connected components

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web mar 29 2020 what is connected component labeling visualization of an example code in matlab what is connected component labeling this is a computer vision algorithm to detect and count the number of connected regions also called blobs in a binary image often this is done after a segmentation algorithm

connected component labelling through matlab github - Jun 07 2022

web may 16 2019 this is a matlab function that utilises the image processing toolbox to convert any image to its edge image using canny algorithm and then label connected components in it the whole labelling algorithm is in a function that you can apply to any image the edge image goes through the labelling algorithm and final image is displayed

connected component labeling file exchange matlab - Mar 16 2023

web feb 10 2014 this function is partly based on the two pass algorithm described here [en wikipedia org wiki connected component labeling](https://en.wikipedia.org/wiki/connected_component_labeling) i did not make use of the disjoint data set structure at least that i am aware of to connect the linked labels