

## QUESTION 8

8.1 State TWO purposes of oil in which the transformer is immersed. (2)

8.2 A 300 kVA three-phase transformer is connected in star-delta and the winding ratio is 1.15. The secondary voltage is 400 V.

Determine the following:

8.2.1 The supply line voltage (4)

8.2.2 The load phase current (4)

[10]

## QUESTION 9

9.1 Briefly explain, with the aid of neat, labelled sketches, what is meant by:

9.1.1 Early current dumping (2)

9.1.2 Air dumping (2)

9.2 Draw a full circuit diagram/sketch where dynamometer instrument is used as an ammeter. (2)

9.3 A moving-coil voltmeter has a movement of 5 ohms and gives full-scale deflection when 12 mA flows through it. It is required to modify the instrument to give full-scale deflection at 250 V. Draw the circuit diagram of the modification required and calculate the value of ADDITIONAL component required. (4)

[10]

## QUESTION 10

10.1 State FOUR uses of the cathode-ray oscilloscope. (4)

10.2 The following electronic components are given:

One centre tap transformer, two diodes, a load resistor and other components

10.2.1 Design a circuit diagram using the above-mentioned components. (3)

10.2.2 Name the circuit diagram. (1)

10.2.3 What is the function of the other component? (2)

[10]

TOTAL 100

Electro-Technology 113 August 2016

Module 2

## Question 1

a. i. Wave wound - for high voltage machines  $\pm$   
ii. Lap wound - for heavy current machines  $\pm$

b. Pole Pitch - is the angular distance in degrees between the centre of the next pole or magnetic  $2$

c. Increase the field flux  $\pm$   
• Brush shifting  $\checkmark$   
• Interpoles  $\checkmark$   
• Compensating windings  $\checkmark$

## Question 2

a. Separate excitation - is when the excitation current required by the field coils or windings is obtained from an external DC source e.g. battery or DC generator. The field coil and armature are completely separated from the compound  $2$

Applications - in automatic motor control systems and in the Ward-Leonard motor generator system.  $2$



ii.

$$R_{ab} = V$$

$$= \frac{E - V}{I_a}$$

$$= \frac{250 - 220}{1000}$$

$$= 0.03 \Omega$$

iii.

$$E = V + I_a R_{ab}$$

$$R_a = \frac{E - V}{I_a}$$

$$R_a = \frac{220 - 210}{1000} = 0.01 \Omega$$

$$R_s = 0.02 \Omega$$

c. TWO VARIABLE FACTORS - Armature and field winding  $\checkmark$

2

# Electro Technology Question Papers 2011

**F Rizvi**



## **Electro Technology Question Papers 2011:**

*Electrical Technology* Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01 The book covers all the aspects of Electrical Technology for undergraduate course Various concepts of electrical engineering like power and energy measurement tariff and power factor improvement illumination single phase and three phase transformers single phase and three phase induction motors alternators d c machines special purpose motors and solid state speed control of d c and a c drives are explained in the book with the help of comprehensive approach The book starts with review of basic concepts of electrical engineering Then it explains electrical power measurement methods and electrical energy measurement methods The book also explains types of tariffs and power factor improvement methods It includes all the details of illumination schemes The book further explains single phase and three phase transformers Then book provides the detailed discussion of three phase and single phase induction motors d c generators and motors and synchronous generators The discussion of special purpose motors such as servomotors stepper motors and universal motor is also provided in support Finally the book incorporates the discussion of various power devices such as power diodes SCR DIAC Triac IGBT Power MOSFETs and then continues to discuss the solid state speed control methods for d c and a c electrical drives The book uses plain simple and lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy The variety of solved examples is the feature of this book The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

ECEG2011-Proceedings of the 11th European Conference on EGovernment Maja Klun, Mitja Decman, Tina Jukić, 2011-01-01 *Electronic Technology and Civil Procedure* Miklós Kengyel, Zoltán Nemessányi, 2012-06-26 The effect of modern and communication technology on civil procedure first appeared on the agenda of the conference organized by the International Association of Procedural Law in 1999 verifying Lord Woolf's statement from the 90s that IT will not only assist in streamlining and improving our existing systems and process it is also likely in due course itself to be catalyst for radical change as well At the conference in Pecs in the autumn of 2010 participants from three continents and twenty five countries examined all aspects of the impact of modern information technology on civil procedure beginning with the electronic submission of the application ranging from electronic service of documents and electronic means of proof supported by modern information technology In addition to the practical issues they discussed the possible impact of electronic procedures on traditional principles of civil procedure The conference book contains seven main reports and eleven correferates the foreword was written by Prof Peter Gottwald the President of the International Association of Procedural Law **The Palgrave Handbook of Survey Research** David L. Vannette, Jon A. Krosnick, 2017-12-21 This handbook is a comprehensive reference guide for researchers funding agencies and organizations engaged in survey research Drawing on research from a world class team of experts this collection addresses the challenges facing survey based data collection today as well as the

potential opportunities presented by new approaches to survey research including in the development of policy It examines innovations in survey methodology and how survey scholars and practitioners should think about survey data in the context of the explosion of new digital sources of data The Handbook is divided into four key sections the challenges faced in conventional survey research opportunities to expand data collection methods of linking survey data with external sources and improving research transparency and data dissemination with a focus on data curation evaluating the usability of survey project websites and the credibility of survey based social science Chapter 23 of this book is open access under a CC BY 4.0 license at [link.springer.com](https://link.springer.com)

*Electronic Technology*, 1944

**Engineering Education and Management** Liangchi Zhang, Chunliang Zhang, 2011-11-25 This is the proceedings of the selected papers presented at 2011 International Conference on Engineering Education and Management ICEEM2011 held in Guangzhou China during November 18-20, 2011 ICEEM2011 is one of the most important conferences in the field of Engineering Education and Management and is co-organized by Guangzhou University, The University of New South Wales, Zhejiang University and Xi'an Jiaotong University The conference aims to provide a high level international forum for scientists, engineers and students to present their new advances and research results in the field of Engineering Education and Management This volume comprises 122 papers selected from over 400 papers originally submitted by universities and industrial concerns all over the world The papers specifically cover the topics of Management Science and Engineering, Engineering Education and Training, Project Engineering, Management and Other related topics All of the papers were peer-reviewed by selected experts The papers have been selected for this volume because of their quality and their relevancy to the topic This volume will provide readers with a broad overview of the latest advances in the field of Engineering Education and Management It will also constitute a valuable reference work for researchers in the fields of Engineering Education and Management

**Electrical Engineering (For 1st Year of UPTU & UTU)** Navani J.P. & Sapra Sonal, Basic Of Concepts, D.C. Circuit Analysis, Network Theorem, A.C. Fundamentals, Analysis Of Single Phase A.C. Circuit, Three Phase A.C. Circuit, Measuring Instruments, Introduction To Power System, Magnetic Circuits, Single Phase Transformer, D.C. Machines, Induction Motors, Three Phase Synchronous Machines, Papers Index

Manufacturing Science and Technology, ICMST2011 Wu Fan, 2011-11-22 Selected peer-reviewed papers from the 2011 International Conference on Manufacturing Science and Technology ICMST 2011, September 16-18, 2011, Singapore

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or processing of results Securing these systems is a necessary step in ensuring the fairness of the democratic process Design Development and Use of Secure Electronic Voting Systems analyzes current research on the integration of modern technologies with traditional democratic systems providing a framework for designing and deploying electronic voting systems in any context or society Stakeholders researchers architects designers and scholars interested in the use of electronic systems in government processes will use this book to gain a broader understanding of some of the latest advances in this emerging field

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**Modeling and Software Design** Boris Shishkov, 2014-05-09 This book contains the extended and revised versions of selected papers from the Third International Symposium on Business Modeling and Software Design BMSD 2013 held in Noordwijkerhout The Netherlands during July 8 10 2013 The symposium was organized and sponsored by the Interdisciplinary Institute for Collaboration and Research on Enterprise Systems and Technology IICREST in cooperation with the Dutch Research School for Information and Knowledge Systems SIKS the Center for Telematics and Information Technology CTIT Aristotle University of Thessaloniki AUTH and AMAKOTA Ltd The theme of BMSD 2013 was Enterprise Engineering and Software Generation The 13 full and 20 short papers presented at BMSD 2013 were selected from 56 submissions The eight papers published in this book were carefully reviewed and selected from the 13 full papers The selection includes papers touching upon a large number of research topics ranging from more conceptual ones such as modeling landscapes process modeling declarative business rules and normalized systems to more practical ones such as business case development and performance indicators and from more business related topics such as value modeling and service systems to topics related to information architectures *273 technical questions and answers for job interview*

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web aug 27 2021 but those early paintings and sketches are startling in how different they are from the final films and it's fun to dig deep into the image archives and discover how much of the entire star wars saga was born in pieces of concept art conceived for the original star wars trilogy early star wars concept art

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