

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur

Regular/Back Exam-2075, Falgun/Chaitra

Program:	Diploma in Electrical/DEEX Engineering	Full Marks: 60
Year/Part:	III/I (2014, 2008)	Pass Marks: 24
Subject:	Power Electronics	Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt **Any Five** questions.

1. a) Explain construction and characteristics of GTO. [3+3]
b) Explain the methods of turning on the thyristor. [6]
2. a) Explain the working principle with circuit diagram & waveforms, of single phase full wave controlled rectifier with four number of thyristor with Highly inductive load. [6]
b) Explain three phase bridge rectifier with six numbers of diodes. [6]
3. a) Describe step down chopper and explain the constant and variable chopping frequency operation. [6]
b) A DC chopper has an input voltage of 230V and an output voltage of 150V. It is operating at frequency of 1-5 KHz. Find the turning on time & turning off time in each cycle. [6]
4. a) Explain single phase half- bridge inverter of operating principle and rms value of output voltage. [6]
b) Explain three phase bridge inverter with six step output voltage waveform. [6]
5. a) Explain working principle of single phase AC voltage controller with resistive load and draw the voltage & current waveforms. [6]
b) Explain three phase AC voltage controller with resistive load and draw waveform for $\lambda = 60^\circ$ [6]
6. Write short notes on: **(any Four)** [4x3=12]
 - a) Power diode V/S single diode
 - b) MOSFET V/S IGBT
 - c) ELC
 - d) Ripple factor
 - e) Commutation

Good Luck

Diploma Electrical Electronics Question Papers

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Diploma Electrical Electronics Question Papers:

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book I am thankful to M s Datalink Bangalore for meticulous processing of the manuscript of this book **APDCL Junior Manager Electrical Group B Exam Guide 2021** Arihant Experts,2021-02-09 1 APDCL Junior Manager Electrical Recruitment Examination is a complete study guide for the examination 2 The guide is divided into 6 Sections 3 2 practice sets are provided for the quick revision of the concepts 4 The book follows the latest exam pattern 5 Well detailed answers are provided for the questions for better understanding Assam Power Distribution Company Limited or APDCL has recently released 220 vacancy posts for Junior Engineer of electrical branch in Category B To get through the posts candidates are required to be well prepared for the examination The all new edition of APDCL Junior Manager Electrical Recruitment Examination is a complete study guide that is prepared for the Candidates who are appearing for this examination The entire syllabus in the book is divided into sections giving complete coverage on it A separate section is for current affairs giving current information around the world Apart from all theories 2 practice sets are provided for quick revision of the concepts Aligned as per the exam pattern of APDCL Junior Manager Electrical Recruitment Exam this book is an invaluable source of help for cracking Examination 2021 TABLE OF CONTENT Current Affairs with Who s Who General English General Aptitude Emotional Intelligence General Knowledge Core Subject Electrical , **2024-25 SSC JE Electrical Engineering Solved Papers** YCT Expert Team , 2024 25 SSC JE Electrical Engineering Solved Papers **2024-25 SSC JE CBT I & II Electrical Engineering Solved Papers** YCT Expert Team , 2024 25 SSC JE CBT I II Electrical Engineering Solved Papers 800 1495 E This book contains 57 online sets previous solved papers with analytical explanation **Practice Set (2023-24 SSC JE Electrical Engineering)** YCT Expert Team , 2023 24 SSC JE Electrical Engineering Practice Set Solved Papers 2025-26 SSC JE Electrical Engineering Solved Papers YCT Expert Team , 2025 26 SSC JE Electrical Engineering Solved Papers 656 995 E This book contains previous solved papers from 2007 to 2024 **Electrical Engineering (2022-23 SSC JE Volume-1)** YCT Expert Team , 2022 23 SSC JE Volume 1 Electrical Engineering Chapter wise Solved Papers Useful for all Upcoming competitive Examinations 38 Sets *Previous Solved Papers (2023-24 RRB)* YCT Expert Team , 2023 24 RRB ALP Previous Solved Papers **Pratiyogita Darpan** ,2007-05 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine **ELECTRICAL ENGINEERING** YCT EXPERT TEAM, 2020 21 SSC JE All Sets 2018 2019 ELECTRICAL ENGINEERING SOLVED PAPERS **BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS** K. Shashidhar,2013-05-31 BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS is intended to be used as a text book for I Semester Diploma in Electronics and

Communication Engineering This book is designed for comprehensively covering all topics relevant to the subject Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education Karnataka This book is divided into eight chapters Chapter 1 Basics of Electricity Chapter 2 Electrostatics Chapter 3 Electromagnetic Induction Chapter 4 AC Fundamentals Chapter 5 AC Circuits Chapter 6 Transformers Chapter 7 Batteries Relays and Motors Chapter 8 Passive Components The text provides detailed explanations and uses numerous easy to follow examples accompanied by diagrams and step by step solutions Illustrative problems are presented in terms of commonly used voltages and current ratings To enhance the utility of the book important points and review questions objective and descriptive type have been included at the end of each chapter Model question papers have been provided to help students prepare better for the semester examinations Multiple choice questions along with answers have been given towards the end of the book for the benefit of students taking up competitive tests It is hoped that this book will be of immense use to teachers and students of Polytechnics Suggestions for improvement in the future editions of this book will be appreciated I wish to express my gratitude to MEI Polytechnic Bangalore for providing me an opportunity to bring out this text book I am grateful to Sri Nitin S Shah M s Sapna Book House Bangalore for publishing this book I am thankful to M s Datalink Bangalore for meticulous processing of the manuscript of this book

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