

**Regular/Back Exam-2077, Chaitra**

**Program: Diploma in Electrical/ Electrical & Electronics Engineering** **Full Marks:80**

**Year/Part: I/II (2008, 2013, 2014 Course)** **Pass Marks: 32**  
**Subject: Principle of Electrical Engineering** **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) Define the terms: Electric current, voltage, power and energy. [8]
- b) Define Resistor and capacitor. What will be the current drawn by a lamp rated at 250v, 40 watts connected to a 230v supply? [4+4]
2. a) State and prove Ohm's law with suitable example. [8]
- b) The effective resistance of two resistors connected in series, is  $100\Omega$ . When connected in parallel the effective value is  $24\Omega$ . Determine the values of the two resistors. [8]
3. a) Differentiate between Dia, para and ferro-magnetic material. [8]
- b) Derive series and parallel connection of capacitor. [8]
4. a) Define magnetic field and magnetic flux. Also explain the hysteresis loop for magnetic material. [8]
- b) Derive the energy stored in current carrying inductor. [8]
5. a) What is Lenz's law? Explain dynamically induced emf and statistically induced emf. [10]
- b) Explain in detail about Faraday's laws of Electromagnetic induction. [6]
6. Write short notes on : **(Any Four)** [4x4=16]
  - a) resistance and its variation with temperature
  - b) Electrostatic induction phenomena.
  - c) KVL circuit
  - d) Faraday's law of electrolysis
  - e) Lead acid cell
  - f) Soft and hard magnetic material

*Good luck !*

# Diploma In Electrical Question Paper

**R Sandford**

## **Diploma In Electrical Question Paper:**

**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 [Elements of Electrical Engineering](#) M.S. Banad,2010 , [ELECTRICAL ENGINEERING](#) YCT EXPERT TEAM, 2020 21 SSC JE All Sets 2018 2019 **ELECTRICAL ENGINEERING SOLVED PAPERS** [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 **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 Times** ,1946 **Early Warning**

**Systems and Targeted Interventions for Student Success in Online Courses** Glick, Danny, Cohen, Anat, Chang, Chi,2020-06-26 Online learning has increasingly been viewed as a possible way to remove barriers associated with traditional face to face teaching such as overcrowded classrooms and shortage of certified teachers While online learning has been recognized as a possible approach to deliver more desirable learning outcomes close to half of online students drop out as a result of student related course related and out of school related factors e g poor self regulation ineffective teacher student student and platform student interactions low household income Many educators have expressed concern over students who unexpectedly begin to struggle and appear to fall off track without apparent reason A well implemented early warning system therefore can help educators identify students at risk of dropping out and assign and monitor interventions

to keep them on track for graduation Despite the popularity of early warning systems research on their design and implementation is sparse Early Warning Systems and Targeted Interventions for Student Success in Online Courses is a cutting edge research publication that examines current theoretical frameworks research projects and empirical studies related to the design implementation and evaluation of early warning systems and targeted interventions and discusses their implications for policy and practice Moreover this book will review common challenges of early warning systems and dashboard design and will explore design principles and data visualization tools to make data more understandable and therefore more actionable Highlighting a range of topics such as curriculum design game based learning and learning support it is ideal for academicians policymakers administrators researchers education professionals instructional designers data analysts and students

**Electrical Supervisor** ,1960    *Canadian Electrical News* ,1894    **The Electrician** ,1893

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