#### Sample Question Paper

Course Name : Diploma in Electrical Engineering/ Electrical Power System

Course Code : EE/ EP

Semester : Fifth

Subject Title: Electric Traction-1

Marks : 100

12146

Time: 3 Hours

Instructions:

1. All questions are compulsory.

Illustrate your answers with neat sketches wherever necessary.

3. Figures to the right indicate full marks.

4. Assume suitable data if necessary.

Preferably, write the answers in sequential order.

Q.1 A) Attempt any THREE

12 Marks

a) List the constituents of supply system.

b) List the different current collecting gears and their applications

c) List the special requirements of train lighting.

d) List the miscellaneous equipment used at control post or switching Station and state the function of each of them.

Q.1 B) Attempt any ONE

06 Marks

a) Draw and describe the following catenary:

i) Compound Catenary construction

ii) Switched Catenary construction

b) Explain with the help of neat diagram the operation of basic AC Track circuit. Also mention any two function of impedance bond present in it.

Q.2) Attempt any FOUR

16 Marks

a) Explain the factors deciding

i) Height of contact wire ii) Contact wire gradient

 b) List any four factors and their relative consideration which decide the Location and spacing of substation.

c) With the help of neat labelled sketch, explain method to obtain unidirectional Polarity in train lighting.

d) Enlist any four requirements of signaling system.

e) Give the purpose, location and any two precautions while installing neutral section.

Q.3) Attempt any FOUR

16 Marks

 a) State the special features of Transformer used in Traction Sub-station with respect to conventional transformer.

# **Sample Question Paper For G Scheme Computer**

**R Bogdan** 

#### **Sample Question Paper For G Scheme Computer:**

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13661 until 13699 constitutes the refereed proceedings of the 17th European Conference on Computer Vision ECCV 2022 held in Tel Aviv Israel during October 23 27 2022 The 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 submissions. The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image Computer Security - ESORICS 2008 Sushil coding image reconstruction object recognition motion estimation Jajodia, 2008-10-05 These proceedings contain the papers selected for presentation at the 13th European Symposium on Research in Computer Security ESORICS 2008 held October 6 8 2008 in Torremolinos Malaga Spain and hosted by the University of Malaga C puter Science Department ESORICS has become the European research event in computer security The symposium started in 1990 and has been organized on alternate years in different European countries From 2002 it has taken place yearly It attracts an international audience from both the academic and industrial communities In response to the call for papers 168 papers were submitted to the symposium These papers were evaluated on the basis of their significance novelty and technical quality Each paper was reviewed by at least three members of the Program Comm tee The Program Committee meeting was held electronically holding intensive d cussion over a period of two weeks Finally 37 papers were selected for presentation at the symposium giving an acceptance rate of 22% Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes Chao, Lee, 2016-01-18 As technology advances so must our education system Cloud computing serves as an ideal method for e learning thanks to its flexibility affordability and availability Cloud based learning is especially dynamic in STEM education as it can significantly lower the cost of building cumbersome computer labs while fostering engaged learning and collaboration among students The Handbook of Research on Cloud Based STEM Education for Improved Learning Outcomes prepares current and future instructors for exciting breakthroughs in STEM education driven by the advancement of cloud technologies From virtual lab and app construction to information sharing and course material distribution this volume touches on a variety of topics related to the benefits and challenges of adopting cloud technologies in the classroom This book is an invaluable reference for educators technology professionals administrators and education students who wish to become leaders in their fields **Computer Algebra in Scientific** Computing Matthew England, Wolfram Koepf, Timur M. Sadykov, Werner M. Seiler, Evgenii V. Vorozhtsov, 2019-08-15 This book constitutes the refereed proceedings of the 21st International Workshop on Computer Algebra in Scientific Computing CASC 2019 held in Moscow Russia in August 2019 The 28 full papers presented together with 2 invited talks were carefully reviewed and selected from 44 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CASs in the investigation and

solution of celestial mechanics problems and in mechanics physics and robotics **Advances in Computer Systems Architecture** Lynn Choi, 2007-07-30 The refereed proceedings of the 12th Asia Pacific Computer Systems Architecture Conference are presented in this volume Twenty six full papers are presented together with two keynote and eight invited lectures Collectively they represent some of the most important developments in computer systems architecture The papers emphasize hardware and software techniques for state of the art multi core and multi threaded architectures **Software** for Computer Control 1982 G. Ferrate, E. A. Puente, 2014-05-16 Software for Computer Control 1982 covers the proceedings of the Third IFAC IFIP Symposium The book discusses the state of software development for digital computer applications for science and control With a total of 73 papers the book covers topics such as real time language and operating systems man machine communication software software for robots software for distributed control systems C A D of digital computer controls systems algorithms for digital computer control software engineering and management and industrial applications Computer scientists engineers and I T professionals will find this book interesting since it provides discussions on the various applications of computer programs Exploring Human-Computer Interactions in Virtual Performance and Learning in the Context of Rehabilitation. Danielle Levac, Tal Krasovsky, Wendy A. Powell, Anat Vilnai Lubetzky, Rachel M. Proffitt, Belinda Lange, Maxime T. Robert, Stephanie Glegg, 2021-10-29 The 8th International Conference on Computer Engineering and Networks (CENet2018) Qi Liu, Mustafa Mısır, Xin Wang, Weiping Liu, 2019-04-15 This book examines innovation in the fields of computer engineering and networking and explores important state of the art developments in areas such as artificial intelligence machine learning information analysis and communication It gathers papers presented at the 8th International Conference on Computer Engineering and Networks CENet2018 held in Shanghai China on August 17 19 2018 Explores emerging topics in computer engineering and networking along with their applications Discusses how to improve productivity by using the latest advanced technologies Examines innovation in the fields of computer engineering and networking Computer Security Javier Lopez, Jianying Zhou, Miguel Soriano, 2018-08-10 The two volume set LNCS 11098 and LNCS 11099 constitutes the refereed proceedings of the 23nd European Symposium on Research in Computer Security ESORICS 2018 held in Barcelona Spain in September 2018 The 56 revised full papers presented were carefully reviewed and selected from 283 submissions. The papers address issues such as software security blockchain and machine learning hardware security attacks malware and vulnerabilities protocol security privacy CPS and IoT security mobile security database and web security cloud security applied crypto multi party computation SDN security The Empirical Validation of House Energy Rating (HER) Software for Lightweight Housing in Cool Temperate Climates Mark Andrew Dewsbury, 2015-02-02 This book reports on the first empirical validation of AccuRate Australia s national benchmark software tool for house energy ratings The validation was conducted by the University of Tasmania in collaboration with Forest and Wood Products Australia the Australian Government the

CSIRO and industry partners The study presented here describes the results of graphical and statistical analysis of variations observed between the measured and simulated data from three different test buildings in Launceston Tasmania It shows that while the AccuRate software is well suited to modeling energy flows there are discrepancies between the simulated and measured temperatures of the test buildings Moreover it highlights possible connections between the discrepancies in all zones and the outside air temperature wind speed global and diffuse solar radiation and possibly the ground model Beyond its contribution to further investigations into the ongoing improvement and calibration of the Australian NatHERS supported AccuRate software this book also meticulously describes the methodology used in conducting the research which is expected to pave the way for further studies of this type Pacific Rim Objective Measurement Symposium (PROMS) 2016 Conference Proceedings Quan Zhang, 2018-04-26 This book gathers original studies presented at the PROMS 2016 conference on Rasch theories and Rasch based applications It provides significant examples used to address practical measurement problems across a range of disciplines including Classic Testing Theory CTT Item Response Theory IRT philosophy of measurement dimensionality the role of fit statistics and research business and industrial applications health related research and the latest Rasch based computer software PROMS welcomes empirical and theoretical studies and workshops preferably with an emphasis on the Rasch model Special attention is paid to manuscripts submitted by non native English speaking authors from Pacific Rim countries regions and beyond PROMS 2016 Pacific Rim Objective Measurement Symposium was held July 30 August 3 2016 in Xi an China The goal of the conference was to bring together researchers scholars and professors from research institutes universities hospitals business and management sectors as well as professional practitioners to exchange and share ideas problems and solutions regarding the multifaceted aspects of the Rasch model and on the much debated yet highly topical issues of objective assessment **Foundations of Software** Technology and Theoretical Computer Science ,1995 Foundations of Software Technology and Theoretical **Computer Science** P.S. Thiagarajan, 1995-12-04 This book constitutes the refereed proceedings of the 15th International Conference on Foundations of Software Technology and Theoretical Computer Science FSTTCS 95 held in Bangalore India in December 1995 The volume presents 31 full revised research papers selected from a total of 106 submissions together with full papers of four invited talks Among the topics covered are algorithms software technology functional programming theory distributed algorithms term rewriting and constraint logic programming complexity theory process algebras computational geometry and temporal logics and verification theory Pattern Recognition and Computer Vision Qingshan Liu, Hanzi Wang, Zhanyu Ma, Weishi Zheng, Hongbin Zha, Xilin Chen, Liang Wang, Rongrong Ji, 2023-12-25 The 13 volume set LNCS 14425 14437 constitutes the refereed proceedings of the 6th Chinese Conference on Pattern Recognition and Computer Vision PRCV 2023 held in Xiamen China during October 13 15 2023 The 532 full papers presented in these volumes were selected from 1420 submissions The papers have been organized in the following topical sections Action Recognition Multi Modal

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