

Sample Question Paper

Course Name : Diploma in Electrical Engineering/ Electrical Power System

Course Code : EE/ EP

Semester : Fifth

Subject Title : Electric Traction-I

Marks : 100

12146

Time: 3 Hours

Instructions:

1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. 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 Questions Paper G Scheme Code 172

Thomas Griffiths



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Review ,1897 **Weekly Florists' Review** Gilbert Leonard Grant,1897 *The Engineer* ,1857 Applied Mechanics *Reviews* ,1973 *Energy Research Abstracts* ,1979 U.S. Government Research & Development Reports ,1969-10

Selected Papers on Image Coding and Compression Majid Rabbani,1992 *The Irish Law Times and Solicitors' Journal* ,1879 *Scientific and Technical Aerospace Reports* ,1993 *Report summaries* United States. Environmental Protection Agency,1983 *Resources in Education* ,1994 Gas World ,1910 Bookseller's catalogues George Harding (ltd.),1884

The Academy ,1876 **Academy, with which are Incorporated Literature and the English Review** ,1876

Academy; a Weekly Review of Literature, Learning, Science and Art ,1876 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 *Internet of Things - The Call of the Edge* Ovidiu Vermesan,Joël Bacquet,2022-09-01 This book provides an overview of the Internet of Things IoT covering new ideas concepts research and innovation to enable the development of IoT technologies in a global context The work is intended as a standalone book in a series covering the activities of the Internet of Things European Research Cluster IERC including research technological innovation validation and deployment The book chapters build on the developments and innovative ideas put forward by the IERC the IoT European Large Scale Pilots Programme and the IoT European Security and Privacy Projects presenting new concepts ideas and future IoT trends and ways of integrating open data frameworks and IoT marketplaces into larger deployment ecosystems The IoT and Industrial Internet of Things technologies are moving towards hyperautomated solutions combining hyperconnectivity artificial intelligence AI distributed ledger technologies and virtual augmented extended reality with edge computing and deep edge processing becoming an assertive factor across industries for implementing intelligent distributed computing resources and data to keep the efficient data exchange and processing local to reduce latency exploit the sensing actuating capabilities and enable greater autonomy Expanding the adoption of consumer business industrial and tactile IoT requires further development of hyperautomated IoT concepts for collaborative solutions involving machines and humans to expand

augmented creativity at the application level using AI to optimise the industrial processes and progress towards a symbiotic economy based on distributed federated cloud edge infrastructure allowing resource sharing in the form of computing memory and analytics capabilities The advances of autonomous IoT applications delivering services in real time encompasses development in servitisation robotisation automation and hyperconnectivity which are essential for the rapid evolution of industrial enterprises in the new digital era The rise of digital twins integrated into IoT platforms as fully interactive elements embedded into the simulation and optimisation environment as well as the embedment of AI techniques and methods enhances the accuracy and performance of models in the various IoT and Industrial Internet of Things applications The convergence of technologies to provide scalable interoperable IoT enabled applications pushed the requirements for high bandwidth low latency and robust and dependable connectivity to support the industry s demand for deeper integration and improved analytics to deliver sustainable competitive advantage products and services enabling digital transformation with a focus on new business models Safety and security are interlinked for the next wave of IoT technologies and applications and combined prove a greater value for rapid adoption The new IoT technologies are essential for facilitating sustainable development reducing energy consumption and by supporting the optimisation of products and processes mitigating unnecessary carbon emissions thereby reducing the environmental impact through real time data collection analysis exchange and processing

Graph Drawing and Network Visualization Michael A. Bekos,Markus Chimani,2024-01-08

This two volume set LNCS 14465 14466 constitutes the proceedings of the 31st International Symposium on Graph Drawing and Network Visualization GD 2023 held in Isola delle Femmine Palermo Italy in September 2023 The 31 full papers 7 short papers presented together with 2 invited talks and one contest report were thoroughly reviewed and selected from the 100 submissions The abstracts of 11 posters presented at the conference can be found in the back matter of the volume The contributions were organized in topical sections as follows beyond planarity crossing numbers linear layouts geometric aspects visualization challenges graph representations graph decompositions topological aspects parameterized complexity for drawings planar graphs frameworks algorithmics

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