

**Sample Question Paper**

**Course Name** : Electrical Engineering Group  
**Course Code** : EE/EP  
**Semester** : Sixth  
**Subject Title** : Power Electronics and Drives  
**Marks** : 100

**12232****Time: 3 Hrs.****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 of the following:****12 Marks**

- a) Describe the construction of SCR with neat sketch also draw it's symbol.
- b) State & explain the specification of SCR.
- c) List the factors required for selection of heat sink used for SCR.
- d) Draw and explain the characteristics of SCR.

**Q.1 B) Attempt any ONE of the following:****06 Marks**

- a) Describe the step up and step down chopper with neat diagram.
- b) Explain with waveforms the constant & variable frequency system for chopper control.

**Q.2 Attempt any FOUR of the following:****16 Marks**

- a) Draw circuit diagram of single phase fully controlled Full wave converter with RL load & explain it's working.
- b) What is the effect of source impedance on performance of 1 phase fully controlled bridge converter?
- c) Draw circuit diagram 3 phase fully controlled bridge converter with R-L load.
- d) Differentiate between single and three phase controlled converter on the basis of no. of SCR, current capacity, application and cost.
- e) Draw neat diagram of cyclo-converter for speed control of 3 phase induction motor.
- f) Describe the operation of speed controls of 3 phase induction motor using variable frequency variable voltage method.

# Msbte Sample Paper 2for Electrical Engineering

**B Lingard**



## **Msbte Sample Paper 2for Electrical Engineering:**

Electrical Technology Dilip G. Tulshiramji, Gautami A. Pujare, Kiran Laxmikant Inamdar, Electrical Engineering Sample Examinations for the Power, Electrical and Electronics, and Computer PE Exams John A. Camara, 2009 Rev ed of Electrical and computer PE sample examination John A Camara *DVC JE Exam- Damodar Valley Corporation Junior Engineer Gr.II (Electrical) Exam Electrical Engineering Subject PDF eBook* Chandresh Agrawal, nandini books, 2025-02-24 SGN The DVC JE Exam Damodar Valley Corporation Junior Engineer Gr II Electrical Exam Electrical Engineering Subject PDF eBook Covers Objective Questions From Various Competitive Exams With Answers **SSC JE (Electrical) Exam Paper-II PDF-Electrical Engineering Practice Sets eBook** Chandresh Agrawal, Nandini Books, 2025-09-10 SGN The SSC JE Electrical Exam Paper II PDF Electrical Engineering Practice Sets eBook Covers Objective Questions With Answers *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 Question Bank on Electrical and Electronics Engineering with Question Papers from Various Competitive and Recruitment Examinations C. Harish Rai, 2020-03-30 This book follows a logical concept building approach rather than only formula based as offered by other books The objective has been to structure a complete examination oriented reference book covering the fundamental aspects of theory at a glance before proceeding to their relevant questions The latest questions 2017 and 2018 from IES with their complete explanations have been given at the end of the text to impart a valuable insight into problem solving approach *Utilization of Electrical Energy* Prof. Anmol D. Ganer, This book explores how electrical energy is applied in various industries and applications focusing on topics like illumination heating welding and traction These books are often tailored for Electrical Engineering students and professionals covering the required Question and Answers solution for deeply and interestingly preparation of their MSBTE exam This book has also includes the easy solution of previous MSBTE paper with Solved Model answers They also address the importance of energy efficiency and sustainability in the context of Indian infrastructure and industry *Electrical and Electronics Sample Exam for the Electrical and Computer PE Exam* John A. Camara, 2011 Get your PE Electrical and Electronics Reference Manual index at ppi2pass com downloads The Most Realistic Practice You Can Get Get the best preparation for the Electrical and Electronics exam with the Electrical and Electronics Sample Exam for the Electrical and Computer PE Exam This sample exam is eight hours long contains 80 questions and simulates the actual exam from the format and level of difficulty to the time limit and number of problems Check your results and see the most efficient solving methods with the complete step by step solutions Use the Electrical and Electronics Sample Exam to practice solving problems under timed conditions assess your problem solving skills reveal topics that require extra review see the most efficient ways to solve problems identify the references you will use most often during the exam Past engineering exam candidates agree taking a realistic timed sample exam is the best

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