

- g. In dielectric heating process the supply requires
- (A) Low frequency. (B) Very low frequency.  
(C) High frequency. (D) Very high frequency.
- h. ON and OFF frequency of a chopper depends on
- (A) Applied voltage. (B) The load current.  
(C) Type of the chopper. (D) Output voltage.
- i. Induction heating is used for
- (A) Melting (B) Annealing  
(C) Forging (D) All the above.
- j. Induction heating requires
- (A) A.C. input. (B) High frequency A.C. input  
(C) D.C. input. (D) Both A.C. and D.C. input

**Answer any FIVE Questions out of EIGHT Questions.  
Each question carries 16 marks.**

- Q.2** a. Explain the Principle of operation & V-I Characteristics of an SCR. (8)  
b. Explain light triggering and dv/dt triggering circuit of an SCR. (4+4)
- Q.3** a. Explain the circuit of a three - phase bridge inverter for  $180^\circ$  conduction. Also draw the waveforms. (8)  
b. A three - phase bridge inverter is fed by a 400 volts battery. The load is star connected and has a resistance of 10 ohms per phase. Find rms load current, power output, and average and rms thyristor current. Assume  $120^\circ$  mode of operation. (8)
- Q.4** a. Explain the circuit of a single-phase fully controlled bridge rectifier with resistive R- load. Also draw the waveforms. (8)  
b. Explain the principle of operation and application of a single-phase cyclo - converter. (8)
- Q. 5** a. Explain the different commutation methods for choppers. (8)  
b. A dc chopper has an input voltage of 230 V and an output voltage of 150 V. It is operating at a frequency of 1 kHz. Find the periods of conduction and blocking in each cycle. (8)

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Data Structures and Algorithms in C++ Lee Wittenberg,2017-05-11 No detailed description available for Data Structures and Algorithms in C

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Open and Distance Education Santosh Kumar Panda,1999 In the Indian context

Parliamentary Papers Great Britain. Parliament. House of Commons,1956 *Minutes and Votes and Proceedings of the Parliament, with Papers Presented to Both Houses* Western Australia. Parliament,1910 *Catalogue of Scientific Papers* Royal Society (Great Britain),1965 *Telecommunications Abstracts* ,1987 *Catalogue of Scientific Papers (1800-1863)*. Royal Society (Great Britain),1965 Foreign Affairs Edmund Dene Morel,Helena Maria Swanwick,1929 **The Law Times Reports** ,1928 **Indian Science Abstracts** ,2008-03 *Catalogue of Scientific Papers (1800-1900)*. Royal Society (Great Britain),1965

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