

- b) A dc on-off chopper operating at 1 kHz and duty cycle of 10% is supplied from a 200V source. If the load inductance is 10 mH and resistance 10Ω. Compute the maximum and minimum current in the load. 7

1 किलोहर्ट्ज पर चलने वाले और 10% के ड्यूटी चक्र वाले डीसी ऑन-ऑफ चॉपर की आपूर्ति 200V स्रोत से की जाती है। यदि भार अधिष्ठान 10 mH और प्रतिरोध 10Ω है। लोड में अधिकतम और न्यूनतम करंट की गणना करें।

7. a) Derive an expression for rms value of output voltage of single phase bridge type ac voltage controller. 7

एकल चरण ब्रिज प्रकार ac वोल्टेज नियंत्रक के आउटपुट वोल्टेज के rms मान के लिए एक अभिव्यक्ति प्राप्त करें।

- b) Draw the circuit of single phase voltage controller with anti-parallel connection of two thyristors and an R-L load. Explain its working. Sketch load voltage and load current waveforms. Derive an expression for output voltage. 7

दो थाइरिस्टर और एक R-L लोड के एंटी-पैरालल कनेक्शन के साथ एकल चरण वोल्टेज नियंत्रक का सर्किट बनाइए। इसकी कार्यप्रणाली समझाइए। लोड वोल्टेज को स्केच करें और वर्तमान तरंगों को लोड करें। आउटपुट वोल्टेज के लिए एक अभिव्यक्ति प्राप्त करें।

8. Write short notes on any three: 14

- a) AC voltage controllers
b) Harmonics and their reduction
c) GTO and its VI characteristics
d) Forced commutation technique of thyristor

किसी तीन पर संक्षिप्त नोट्स लिखें।

- अ) AC वोल्टेज नियंत्रक
ब) हार्मोनिक और उनकी कमी
स) GTO और इसकी VI विशेषताएँ
द) थाइरिस्टर की जबरन कम्यूटेशन तकनीक

Roll No. _____

EE/EX-502 (GS)

B.Tech., V Semester

Examination, November 2023

Grading System (GS)

Power Electronics

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

किन्हीं पाँच प्रश्नों को हल कीजिए।

ii) All questions carry equal marks.

सभी प्रश्नों के समान अंक हैं।

iii) In case of any doubt or dispute the English version question should be treated as final.

किसी भी प्रकार के संदेह अथवा विवाद की स्थिति में अंग्रेजी भाषा के प्रश्न को अंतिम माना जायेगा।

1. a) Explain the two transistor analogy of SCR with equivalent circuit and give three applications. 7

समकक्ष सर्किट के साथ SCR के दो ट्रांजिस्टर समकक्ष को समझाइए और तीन अनुप्रयोग दें।

- b) Explain the operation of IGBT with VI and switching characteristics. 7

VI और स्विचिंग विशेषताओं के साथ IGBT के संचालन की व्याख्या करें।

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