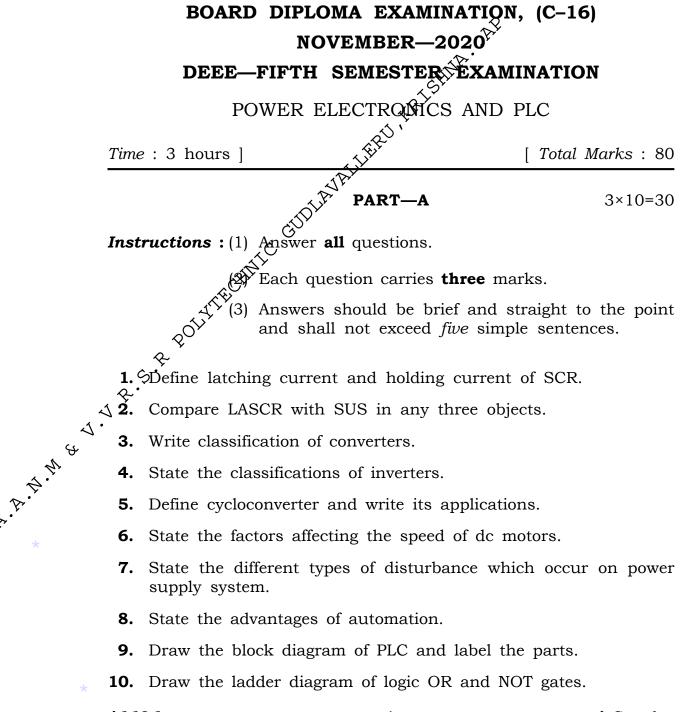


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PART—B 10×5=50

Instructions : (1) Answer any five questions.

- (2) Each question carries ten marks.
- (3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

	P.P.	
11.	(a) Explain the construction of $GTOSCR$ with a diagram.	5
	(b) Explain class C (complementary) communication of SCR with neat diagram.	5
12.	Explain different modes of operation of TRIAC with neat sketches.	10
13.	Explain the working of single-phase full-wave AC voltage regulator with resistive load with neat waveforms.	10
14.	(a) Define the chopper and state its applications.	5
	(b) Explain the operation of series inverter with neat circuit diagram.	5
15. ~	Explain the emergency lamp circuit using SCR with a diagram.	10
بر . ۲ 6 .	(a) Compare open-loop and closed-loop control systems.	5
	(b) Explain the types of feedback control system.	5
	(a) Explain the open-loop control system with an example.	6
₽. [°]	(b) State the types of PLC instruction set.	4
* 18.	Explain the ladder diagram of DOL starter with neat diagram.	10

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