T2124 / T1033 S.E.(PRODUCTION ENGG)(SEM IV) (CBSGS) ELECTRICAL & ELECTRONICS ENGINEERING MAY 2017 / 01.06.2017

Q.P. Code :16954

[Time: Three Hours]

Please check whether you have got the right question paper.

N.B:

- 1. Question.No.1 is compulsory.
- 2. Attempt any three questions out of remaining five questions.
- 3. Figures to the right indicate full marks.

1.	,	Attempt the followings. (Any Four)	20
		Explain the working Principle of DC Generator and derive EMF equation.	
	12-57.0	Explain why single phase induction Motor is not self starting.	
	200	Draw and explain V-I characteristics of SCR.	
		Explain electrical welding, with block diagram.	
	e)	Explain the functions of micro controllers and their applications.	
2.	a)	Explain the construction and working of transformer with neat diagram.	10
	b)	Explain encoders and decoders with diagram.	10
3.	2)	Draw and explain Torque-speed characteristics of 3 phase Induction Motor.	10
٥.		Explain the characteristics of ideal OP- Amp (operational Amplifier) and explain any one application with	10
	D)	suitable diagrams.	10
4.	a)	Explain the application of SCR for speed control of AC Motors.	10
	b)	Explain the transformer tests to calculate the efficiency and regulation with circuit diagram.	10
5.	al	Discuss the transmission and distribution of electric power with neat diagram.	10
٥.		Explain the working of stepper motor and its industrial applications.	10
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6.		Write a short notes on the following.(Any Three)	20
		a) Applications Timers and relays.	
		b) Block diagram of 8085 micro processor.	
		c) Overload protection circuits.	
		d) Speed control of DC Motor	