Total No. of Printed Pages:02

SUBJECT CODE NO:- H-204 FACULTY OF ENGINEERING AND TECHNOLOGY S.E. (Mech/Prod)

Electrical Machine & Applied Electronics (OLD)

[Time:	ime: Three Hours] [Max		.Marks:80	
N.B	I. Q.No	ther you have got the right question paper. 1 from section A and Q.No.6 from section B are compulsory. any two questions from the remaining in each section. Section A	2/2/10/10/10/10/10/10/10/10/10/10/10/10/10/	
Q.1	Attempt any five a) Necessity of starter in DC me b) What are selection criteria fo c) Explain working principle of d) What is rheostatic breaking? e) Draw the construction of step f) What are the applications of g) Define back EMF & state its h) What is slip?	r motor still mill industries? DC motor. pper motor. universal motor?	10	
Q.2	a) Give the comparison betweenb) Give details classification of	n electric breaking and mechanical breaking. electrical drives.	07 08	
Q.3	a) Explain the construction of Ib) Draw & explain torque-slip of	OC machines. characteristics of three phase induction motor.	07 08	
Q.4	a) Draw and explain 4-point stab) Draw & explain construction		07 08	
Q.5	 Write short notes on <u>any three</u>. a) Cooling and heating of DC n b) Explain the starters of induct c) V/F control of AC motors d) Group drives 		15	

EXAMINATION MAY/JUNE 2018

Section B

Q.6	Attempt any five		10
	a)	What is operating principle of airflow sensor?	
	b)	What is SCR?	
	c)	Why sequential timer circuit is used?	
	d)	Give application of sensor explain any one of them.	- 1 V V V V V V V V V V V V V V V V V V
	e)	Draw V-I characteristics of DIAC.	JANA CONTRACTOR
	f)	Draw opto coupler.	9, 9, 5, 5, 6, 6, 6, 5, 5, 6, 6, 5, 5, 6, 6, 6, 5, 5, 6, 6, 6, 6, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
	g)	What is solenoid valves?	76 9 9 9 Y Y
	h)	What is relay? What are its types?	
Q.7	a)	Give the detail classification of sensor.	07
	b)	Explain in details working principle of light dimmer circuit.	08
Q.8	a)	Differentiate TRIAC and DIAC.	07
	b)	Explain in details working principle of transistor.	08
Q.9	a)	Explain in details 7 segment display.	07
	b)	What are the types of load cells? Explain construction & working.	08
Q.10	Write short notes on any three.		15
	a)	Construction of relay	
	b)	Shaft encoder decoder	
	c)	Sequential timer circuit	
	d)	MOSFET	