030136/30423

No. of Printed Pages : 4		
Roll No	70336/120136/ 030136/30423	
3rd Sem. / Agri, Auto, Chem, P&P, Civil, Mech, Plastic, Prod., T&D, CNC, CAD/ CAM, Print Making Tech. Subject: Basics of Electrical and Time: 3 Hrs.  SECTION-A  M.M.: 100		
Note:Objective type questions. All compulsory	questions are (10x1=10)	
(Course Outcome/CO)		
Qal Define Power.	(CO-1)	
O2 Define R.M.S. value of sinusoidal wave. (CO-1)		
Q.3 Which instrument is used for me energy.	asuring electric (CO-1)	
Q.4 Explain P-type semiconductor.	(CO-7)	
Q.5 Draw symbol of Zener Diode	(CO-7)	
Q.6 Expand ELCB.	(CO-4)	
Q.7 What is thyristor?	(CO-7)	
Q:8 What is process control?	(CO-7)	
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Q.9 Define electric current.	(CO-1)	
Q.10 What is step up transformer?	(CO-3)	
SECTION-B		
Note: Very Short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20		
Q.11 What is the effect of change in temper Resistance?	rature on (CO-1)	
Q.12 Explain star connections.	(CO-3)	
Q.18 What is power factor?	(CO-2)	
Q.14 Explain the term efficiency rel Transformer.	ated to (CO-3)	
Q.15 Draw the connection of wattmeter.	(CO-1)	
Q.16 What is SCR?	(CO-7)	
Q47 Explain earthing.	(CO-6)	
Q.48 What is Fuse.	(CO-8)	
Q19 Explain extrinsic semiconductor.	(CO-7)	
Q.20 What do you mean by transistor?	(CO-7)	
9.21 Define form factor and peak factor.	(CO-4)	
Q.22 What is Electromagnetic Induction?	(CO-3)	
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## **SECTION-C**

Note: Short answer type questions. Attempt any eight questions out of ten question. (8x5=40)

@23 Explain the various types of earthing.

Q#24 Explain the difference between A.C supply and D.C supply. (CO-1)

25 Explain the concept of Phase and Phase difference. (CO-3)

Q<del>26 Give</del> uses of transistor. (CO-7)

Q27 Differentiate between high and low voltage distribution system. (CO-4)

Q.28 List the applications of MCB and ELCB. (CO-4)

Q.29 Explain Lenz's law. (CO-1)

Q.30 Derive the relationship between the beta and alpha of a transistor. (CO-3)

Q:31 Explain the concept of precautions against electric shock. (CO-6)

Qx82 Explain parts of domestic electrical Installation.

(CO-4)

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## SECTION-D

Note:Long answer type questions. Attempt any three questions out of four question. (3x10=30)

@x33 Explain with neat sketch the construction and working of three phase Induction motor.(CO-5)

Q.84 Explain the following:-

(CO-3)

(a) Isolation transformer.

Cooling of transformer.

2.35 Explain the following:

(CO-4)

a) Differentiate between light fan circuit and single phase power circuit.

Identification of wiring system.

Q.36 Explain the diagram of transmission system and explain every component in detail. (CO-4)

(Note: Course outcome/CO is for office use only)

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