CODE: 3033 **REVISION: 2015** **VERSION:**

COURSE: FUNDAMENTALS OF AC SYSTEMS

BLUE PRINT

Sl. No.	Module	Type of Questions							
		Part A		Part B		Part C		Total	
		No. of Questions	Score	No. of Questions	Score	No. of Questions	Score	No. of Questions	Score
1.	I	2	4	2	12	4	30	8	46
2.	II	1	2	2	12	4	30	6	38
3.	III	1	2	1	6	4	30	7	44
4.	IV	1	2	2	12	4	30	7	44
Total		5	10	7	42	16	120	28	172

Signature:

Name:

Designation:

Institution:

QUESTION WISE ANALYSIS

COURSE: 6032 MICROCONTROLLERS AND PROGRAMMABLE LOGIC CONTROLLERS

(REV 2015)

VERSION:

Question No.		Specific Outcome *As per syllabus*	Module	Content details	Score	Time in minutes
I	1	1.1.3	I	Equation of alternating voltage	2	4
	2	1.1.1	I	Generation of alternating voltage	2	4
	3	2.1.3	II	AC through inductor and resistor	2	4
	4	3.1.5	III	3 phase delta connection	2	4
	5	4.1.4	IV	2 wattmeter method for power measurement.	2	4
II	1	1.1.2	I	Explain the advantage of AC supply system.	6	8
	2	1.1.8	I	Addition and substation of vectors	6	8
	3	2.1.4	II	AC through resistance and capacitor	6	8
	4	3.1.5	III	Distinguish delta connections	6	8
	5	4.1.4	IV	Two wattmeter method for power measurement.	6	8
	6	2.1.9	II	Describe resonance	6	8
	7	4.1.11	IV	Identify various power factor correction equipment	6	8
III	*a*	1.1.6,1.1.7	I	Vector representation of alternating quantities, addition of alternating quantities.	8	15
	b	1.1.4	I	Identify term related to alternating current	7	15
IV	*a*	1.1.4,1.1.5	I	identify terms related to alternating current , explain the term form factor	8	15
	b	1.1.3	I	Derive the equations of alternating voltage and currents.	7	15
V	*a*	2.1.4,2.1.9	II	AC through resistance, inductor and capacitor, resonance in AC series circuit	8	15
	b	2.1.3	II	AC through resistance and inductor	7	15
VI	*a*	2.1.10	II	Compute problems regarding AC circuit	8	15
	b	2.1.4	II	AC through resistance, inductor and capacitor	7	15

VII a	3.1.4	III	Distinguish star connection	8	15
b	3.1.3	III	Explain the advantages of polyphase system	7	15
VIII a	3.1.5	III	Distinguish delta connections	8	15
b	3.1.6	III	Compare star and delta system	7	15
IX a	4.1.4	IV	Describe two wattmeter method for power measurement	8	15
b	4.1.6	IV	Distinguish between balanced load and unbalanced load.	7	15
X a	4.1.4	IV	Describe two wattmeter method for power measurement	8	15
b	4.1.7	IV	Power factor in leading and lagging	7	15