APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Scheme for Valuation/Answer Key
Scheme of evaluation (marks in brackets) and answers of problems/key
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019
Course Code: AE410
Course Name: POWER PLANT INSTRUMENTATION

Max. Marks: 100   Duration: 3 Hours

PART A
Answer any two full questions, each carries 15 marks.
Marks

1	a)	Diagram 3 marks	(10)
		Explanation 7 marks	
	b)	Diagram 3 marks	(5)
		Explanation 2 marks	
2	a)	Diagram 2 marks	(5)
		Explanation 3 marks	
	b)	Diagram 2 marks	(5)
		Explanation 3 marks	
	c)	Air preheating(2),Superheating(3)	(5)
3	a)	Diagram 3marks	(8)
		Explanation 5 marks	
	b)	Diagram 3 marks	(7)
		Explanation 4 marks	

PART B
Answer any two full questions, each carries 15 marks.

4	a)	Explanation – 3marks	(5)
		Diagram -2 marks	
	b)	Explanation – 5marks	(5)
	c)	Explanation – 3marks	(5)
		Diagram -2 marks	
5	a)	Explanation of power factor – 2.5marks	(5)
		Explanation of frequency – 2.5marks	
	b)	Explanation – 3marks	(5)
		Diagram -2 marks	
	c)	Explanation – 3marks	(5)
		Diagram -2 marks	

6   a)   Explanation –4marks   (7)

         Diagram -3 marks

    b)   Explanation – 5marks   (8)

         Diagram -3 marks

PART C
Answer any two full questions,each carries 20 marks.

7   a)   Control techniques -7marks   (10)

         Figure-3marks

    b)   Interlocks + brief details = 5 marks   (5)

    c)   Performance Comparison = 5 marks   (5)

8   a)   Need for reactor control – brief details = 7 marks   (7)

    b)   Importance-5marks   (5)

    c)   Details on measurements = 8marks   (8)

9   a)   Explanation – 7marks   (10)

         Diagram -3 marks

    b)   Diagram (5), symbols and markings (5)   (10)

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