S2026

Final Scheme/ Answer Key for Valuation

Scheme of evaluation (marks in brackets) and answers of problems/key

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

Course Code: ME100

Course Name: BASICS OF MECHANICAL ENGINEERING

Max. Marks: 100 PART A			ration: 3 Hours
1	a)	Answer any two questions, each carries 15 marks. Equation – 1 mark	Marks
		Sign convention – 2 mark	(5)
		Calculation – 1 mark	(3)
		Answer – 1 mark	
	b)	PV diagram - 2 mark	
		TS diagram - 2 mark	(10)
		Derivation steps – 4 marks	(10)
		Final equation – 2 marks	
2	a)	CRDI block diagram – 2 marks	(5)
		Theory – 3 marks	(3)
	b)	Diagram - 4 marks	(10)
		Working - 6 marks	(10)
3	a)	Diagram - 3 marks	(7)
		Working - 4 marks	(7)
	b)	Diagram - 3 marks	(9)
		Working - 5 marks	(8)
		PART B	
4	a)	Answer any two questions, each carries 15 marks. Any five properties - 5 marks	(5)
	b)	Block diagram – 3 marks	
		P-H & T-S diagrams – 1 mark each	(10)
		Working – 5 marks	
5	a)	Diagram –7 marks	(10)
		Derivation –3 marks . (3 marks for attempting the question can be given)	(10)
	b)	Diagram - 2 marks	(5)

		Working - 3 marks	
6	a)	Five components of an automobile – 5 marks	(5)
	b)	Diagram – 7 marks	(10)
		Derivation – 3 marks	(10)
		PART C	
7	a)	Answer any two questions, each carries 20 marks. Functions of runner and riser – 8 marks	(8)
,	b)	Properties of moulding sand 5 points – 2 marks each	(10)
	c)	Any two casting defects - 1 mark each	(2)
8	a)	Diagram – 2 marks	()
	,	Explanation – 2 marks	(12)
		Any four operations – 8 marks	
	b)	Up milling with diagram – 4 marks	
		Down milling with diagram— 4 marks	(8)
9	a)	Any five advantages - 5 marks	(5)
	(b)	Soldering – 2.5 marks	(-)
		Brazing– 2.5 marks	(5)
	(c)	Explain – 2 marks.	(10)
		Four steps – 8 marks	(10)

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