R1906
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: BE101-02

Course Name: INTRODUCTION TO MECHANICALENGINEERING SCIENCES

Max. Marks: 100   Duration: 3 Hours

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

1	a)	Definition-2 marks, explanation-3 marks	(5)
	b)	solution- 4 marks, justification-2 marks	(6)
	c)	Enthalpy-2 marks, internal energy-2 marks	(4)
2	a)	Explanation- 5 marks, sketch – 3 marks	(8)
	b)	Explanation- 5 marks, sketch – 2 marks	(7)
3	a)	Description-5 marks	(5)
	b)	Differentiation- 5 marks	(5)
	c)	Comparison any 5 points– 5 marks	(5)

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

4	a)	Description – 6 marks, diagram-2 marks, P-h or T-S diagram-2 marks	(10)
	b)	Explanation- 3 marks, sketch – 2 marks	(5)
5	a)	Explanation- 6 marks, sketch – 4 marks	(10)
	b)	sketch – 5 marks	(5)
6	a)	Explanation- 5 marks, sketch – 4 marks	(9)
	b)	3 points each-6 marks	(6)

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

7	a)	Definitions- 10 marks	(10)
	b)	2 marks each	(10)
8	a)	Explanation- 6 marks, approximate sketch – 4 marks	(10)
	b)	Explanation- 6 marks, sketch – 4 marks	(10)
9	a)	Properties of ceramics 3 marks, Properties of composites 3 marks. Relevant fields of applications 2 points each 2 + 2 = 4 marks	(10)
	b)	Diagram- 7 marks, labelling – 3 marks	(10)

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