

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: ME482

Course Name: Energy Conservation and Management

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any three full questions, each carries 10 marks.

		Marks
1	a) Comparison 2 points and difference 3 points 1 X5 = 5 marks	(5)
	b) Brief explanation/chart representation and commends	(5)
2	a) Explanation on the impacts of energy on environment 4 points	(7)
	b) List at least 3 types	(3)
3	a) Explanation	(5)
	b) Power triangle 1 mark , explanation 2+2 marks	(5)
4	a) Definition 2 X 3 = 6marks	(6)
	b) 4 points 4 marks	(4)

PART B

Answer any three full questions, each carries 10 marks.

5	a) Line diagram includes super heater, economiser and air pre-heater	(7)
	b) Minimum 3 points 3 marks	(3)
6	a) Explanation With sketch/without sketch :	(5)
	b) Explanation 5 marks	(5)
7	a) Explanation 5 marks	(5)
	b) 5 points 5 marks	(5)
8	a) Minimum 5 reasons and solutions 5 marks	(5)
	b) Mismatch in sizing, explanation of energy wastage	(5)

PART C

Answer any four full questions, each carries 10 marks.

9	a) Brief explanation on 3 types of energy audit 3+3+4	(10)
10	a) Briefing of the various phases	(10)
11	a) Report on lighting, equipments and fuel cost for cooking, automobile fuel cost, power saving by pv system	(10)
12	a) Steps with solution	(5)
	b) Explanation	(5)



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- 13 a) LCC explanation 2 marks and 5 components explanation 8 marks (10)
- 14 a) Step by step solution 10 marks (10)

