

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: CE474

Course Name: MUNICIPAL SOLID WASTE MANAGEMENT

M	ax. l	Duration: 3 Hours						
PART A								
Answer any two full questions, each carries 15 marks.			Marks					
1	a)	Any Five with brief explanation (2marks each)	(10)					
	b)	Five property (1 mark each)	(5)					
2	a)	Answer 27.79kg, Dry weight calculation (2 marks)	(5)					
		Average moisture content (3marks)						
	b)	Any five advantages (1mark each)	(5)					
	c)	Any five impacts (1marks each)	(5)					
3	a)	Total Energy =14740kJ/kg (4)	(10)					
		Energy on dry basis = 18658.23 kJ/kg (3)						
		Energy on ash free basis = 19918.92kJ/kg (3)						
	b)	Any five impacts with a brief note	(5)					
		PART B Answer any two full questions, each carries 15 marks.						
4	a)	Definition (2), Need at least three points (3)	(5)					
7	b)	Chemical conversion (5) & Biological conversion (5)	(10)					
5	a)	Brief note on transfer station requirements (any five point)	(5)					
J	b)	Flow chart (3) explanation (7)	(10)					
6	a)	Any five points	(5)					
U	b)	Magnetic separation (3) Equipment used (2)	(5)					
	ĺ	Types of collection systems (5)	(5)					
	c)	PART C	(3)					
Answer any two full questions, each carries 20 marks.								
7	a)	Indore process explanation(4) advantages any four (4)	(8)					
	b)	Parts of incinerator (3) sketch (5)	(8)					
	c)	Composition of effluent gas(at least 4 components)	(4)					
8	a)	Vermi compositing Definition (3) Process (4)	(7)					
	b)	Definition (3)Merits (2.5) demerits(2.5)	(8)					



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	c)	Benefits of composting (any five)	(5)
9	a)	Components (9), Sketch (5)	(14)

anaerobic digestion (6) (6)

