

Scheme of Valuation/Answer Key

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

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

V SEMESTER B.TECH(S) DEGREE EXAMINATION, MAY 2019

Course Code: EE305

Course Name: POWER ELECTRONICS

Ma	x. M	Duration: 3 Hours				
		PART A	Marks			
		Answer all questions, each carries5 marks.				
1		Characteristics -3Operation 2	(5)			
2		Circuit diagram – 2, Waveform – 2, Explanation 1	(5)			
3		Circuit 2, derivation 3	(5)			
4		Explanation 5	(5)			
5		Diagram 3, explanation 2	(5)			
6		Derivation 5	(5)			
7		Figure 2, explanation 3	(5)			
8		Figure 2, explanation 3	(5)			
PART B						
		Answer an <mark>y two full questions, eac</mark> h carries10 m	arks.			
9	a)	Figure 2, explanation 3	(5)			
	b)	Figure 2, explanation 3	(5)			
10	a)	Circuit 2, waveform 3	(5)			
	b)	Explanation 5	(5)			
11	a)	Ratings 5	(5)			
	b)	Application of correct expressions – 2, Correct substitution and re-	esult 3 (5)			
PART C						
	Answer any two full questions, each carries 10 marks.					
12	a)	Circuit 3, explanation 2	(5)			
	b)	Waveform with	(5)			
10	`	Input voltages – 1, Output voltage -2, output current 2	(5)			
13	a)	Description 2, circuit 3	(5)			
	b)	Phase voltage – 3, line voltage 2	(5)			
14	a)	Solution 5	(5)			



Pages 2

	b)	Circuit 3, explanation 2.	(5)
		PART D Answer any twofull questions, each carries 10 marks.	
15	a)	Explanation of three methods 5	(5)
	b)	Circuit -2 , output wave -2 , explanation 1	(5)
16	a)	Figure 3, explanation 2	(5)
	b)	Circuit 2, waveform 2, explanation 1	(5)
17	a)	Description of types 5	(5)
	b)	Correct solution 5	(5)

