

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Scheme for Valuation/Answer Key

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

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

Course Code: AE461

Course Name: ARM SYSTEM ARCHITECTURE

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.

	Marks
1 a) Explanation(7 marks)	(7)
b) CPSR register (4 marks), Explanation(4marks)	(8)
2 a) Explanation (7 marks)	(7)
b) Types of exception (3 marks), explanation (5 marks)	(8)
3 a) Functional requirements(4marks),non-functional requirements (4 marks)	(8)
b) Need for pipelining(3 marks), ARM 7 pipelining(4 marks)	(7)

PART B

Answer any two full questions, each carries 15 marks.

4 a) Explanation of each instruction(2 marks each)	(8)
b) Registers (3 marks),Explanation(4 marks)	(7)
5 a) Block diagram (3 marks),Explanation(5marks)	(8)
b) Block diagram (3 marks),Explanation(4 marks)	(7)
6 a) Define (3 marks), explanation (4 marks)	(7)
b) Configuration steps(8 marks)	(8)

PART C

Answer any two full questions, each carries 20 marks.

7 a) Explanation user(3), kernel(3), supervisor(4)	(10)
b) Explanation(5 marks)	(5)
c) Explain (5 marks)	(5)
8 a) Data types(5 marks),Alignments(5 marks)	(10)
b) Explanation (4marks)	(4)
c) Program with comments(4 marks), Explanation(2 marks)	(6)
9 a) Diagram(5marks),Explanation(5 marks)	(10)
b) Configuration steps (10 marks)	(10)
