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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 (S), MAY 2019

Course Code: CS403

Course Name: PROGRAMMING PARADIGMS

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 4 marks.

		Marks
1	Definition(2)+Difference(2)	(4)
2	Yes(1)+Explanation(3)	(4)
3	Definition(2)+Purpose(2)	(4)
4	Definition(1)+Example(3)	(4)
5	Fact(1)+Rules(2)+Queries(1)	(4)
6	Difference(At-least two)	(4)
7	Reader –writer(2)+Normal lock(2)	(4)
8	Busy waiting(2)+Alternative(2)	(4)
9	Yes(1)+Justification(3)	(4)
10	V-table(2)+use(2)	(4)

PART B

Answer any two full questions, each carries 9 marks.

11	a) Closest nested scope rule(2)+Scope(4)	(6)
	b) Reason	(3)
12	a) Static(3)+Dynamic(2)	(5)
	b) Value-model + Reference model(3)+Difference(1)	(4)
13	a) Memory layout of structure(3)+Union(3)	(6)
	b) Strict(1.5)+Loose(1.5)	(3)

PART C

Answer any two full questions, each carries 9 marks.

14	a) 4 modes(4)+Explanation based on scenario(2)	(6)
	b) 3 ways(3)	(3)
15	a) Calling sequence(2)+Working(2)+Prologue,epilogue(2)	(6)
	b) Let construct + letrec construct(1.5*2)	(3)
16	a) Backtracking explanation	(6)



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b) DFA (1.5)+Simulation(1.5)

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(3)

PART D

Answer any two full questions, each carries 12 marks.

- 17 a) Each output carry one mark (9)
b) Static+dynamic(1.5*2) (3)
- 18 a) Seven features (7)
b) Figure(2)+explanation(3) (5)
- 19 a) Barrier(3)+Spinlock(3) (6)
b) Figure(3)+Explanation(3) (6)

