Scheme of Valuation/Answer Key

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

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER B.TECH DEGREE EXAMINATION, MAY2019

Course Code: CE207

Course Name: SURVEYING

Max. Marks: 100   Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.

			Marks
1	a)	Definition 2 marks : methods – 3 marks	(5)
	b)	Tabulation – 3marks: Reduced level – 4marks : Check – 3 marks	(10)
2	a)	Definition – 2 marks: systems – 2 marks each with figure	(4)
	b)	Dip and Declination 3 marks: isogonic and agonic – 2marks	(5)
	c)	Figure – 2marks : equation – 2 marks : answer – 2 marks	(6)
3	a)	2 methods –3 marks each	(6)
	b)	Contour – 2 marks: direct method – 4 marks: indirect method – 3 marks	(9)

PART B

Answer any two full questions, each carries 15 marks.

			Marks
4	a)	Figure – 1 marks: Explanation – 4 marks	(5)
	b)	Elevation of LOS – 202 m - 1 marks: h1 – 38 m – 1 marks: D1 -23.76 km – 2 marks : D2 -36.23 km – 1 marks : h2 – 88.23 m- 2 marks: LOS at B – 290.33 m – 1 marks : Ground level – 280 m – 1 marks: height of signal – 10.33 m -1 marks	(10)
5	a)	Mass diagram – 2 marks: uses – 3 marks	(5)
	b)	Steps with explanation – 10 marks	(10)
6	a)	Statement – 2 marks : Equation with fig – 3 marks	(5)
	b)	Equation- 1 marks: Areas – 4 marks: trapezoidal – 6258 m^2 -2.5marks Prismoidal – 6316 m^2 – 2.5 marks	(10)

		PART C	
		Answer any two full questions, each carries20 marks.	
7	a)	Statement with equation – 5 marks	(5)
	b)	Principle – 3 marks : figure – 2 marks	(5)
	c)	Normal equation – 2 marks each Solution – 4 marks	(10)
8	a)	Each definition – 2 marks	(10)
	b)	Explanation with figure – 10 marks	(10)
9	a)	Any two types of EDM instrument-2.5 mark each. Any two types of Modulation -2.5 mark each	(10)
	b)	Weight – 1 marks X=46x+29y+32z-147 Y=29x+31y+22z-81 Z=32x+22y+30z-128 – 3 marks each	(10)
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