Program: Civil Engineering Curriculum Scheme: Rev2012 Examination: Second Year Semester IV Course Code:CE-C402 and Course Name: SURVEYING-2

Time: 1 hour

Max. Marks: 50

For the students:- All the Questions are compulsory and carry equal marks .

Q1.	The chord of a curve less than peg interval, is known as
Option A:	Small chord
Option B:	Sub-chord
Option C:	Normal chord
Option D:	Short chord
Q2.	A lamniscate curve between the tangents will be transitional throughout if the
	polar deflection angle of its apex, is
Option A:	Total deflection angle/2
Option B:	Total deflection angle/3
Option C:	Total deflection angle/4
Option D:	Total deflection angle/6
Q3.	The angle of intersection of the curve is the angle between
Option A:	Back tangent and forward tangent
Option B:	Prolongation of back tangent and forward tangent
Option C:	Forward tangent and long chord
Option D:	Back tangent and long chord
Q4.	The ratio of the radius and apex distance of a curve deflection through 1 degree, is
Option A:	Sec $(1/2) - 1$
Option B:	$1 - \sec(1/2)$
Option C:	$\cos(1/2) - 1$
Option D:	$\tan(1/2)$ -1
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Q5.	If +0.8% grade meets -0.7% grade and the rate of change of grade for 30 m
	distance is 0.05, the length of the vertical curve will be
Option A:	600 m
Option B:	700 m
Option C:	800 m
Option D:	900 m
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Q6.	Polar orbiting satellites are generally placed at an altitude range of
Option A:	7-15 km
Option B:	7000-15000 km
Option C:	700-1500 km
Option D:	70-150 km
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Q7.	Signal can be generated by

Option A:	Interaction of EM waves with surface
Option B:	Interaction of EM waves with energy source
Option C:	Interaction of EM waves with atmosphere
Option D:	Interaction of EM waves with sensor
Q8.	Which of the following doesn't indicate a stage in remote sensing?
Option A:	Reflectance of energy
Option B:	Transmission of energy
Option C:	Energy source
Option D:	Absorption of energy
Q9.	Which type of remote sensing uses its own source of electromagnetic energy?
Option A:	Passive
Option B:	Active
Option C:	Satellite
Option D:	Orbital
Q10.	Which of the following represents the correct sequence for the basis of EDM
	propagation?
Option A:	Propogation, generation, reflection and reception
Option B:	Generation, reception, refelction and propogation
Option C:	Generation, propogation, reception and reflection
Option D:	Generation, propagation, reflection and reception
Q11.	The distance in EDM is measured by
Option A:	Frequency of the wave
Option B:	Wave length
Option C:	Phase difference
Option D:	Amplitude
010	
Q12.	was the first microwave based EDM developed in the world.
Option A:	Tellurometer
Option B:	The shelide
Option C:	
Option D:	lachometer
012	The horizontal angle subtanded at the station by a subtance her with young 2 m
Q13.	anort is 0' 10' 40". Coloulate the herizontal distance between the theodelite and
	apart is 0 10 40. Calculate the horizontal distance between the meddonte and the subtense har?
Option A:	960 m
Option R:	900 m 066 87 m
Option C:	900.87 III 066, 78 m
Option D:	900. 78 III 006 87 m
Option D.	200.07 III
014	The following readings were taken with a tacheometer on to a vortical staff
Q14.	Horizontal distance stadia readings at 46.20 m are 0.780. 1.010. 1.240 and at
	51 20 m are 1 860° 2 165° 2 470 Calculate the tacheometric constants
Ontion A.	100 0 20 m
Cruon 11.	100, 0.40 111

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Option B:	200, 0.10 m
Option C:	100, 0.10 m
Option D:	200, 0.20 m
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Q15.	Distance and elevation formulae for fixed method assuming line of sight as
	horizontal and considering an external focusing type telescope is D= Ks + C.
	where K is
Option A:	f/i
Option B:	i/f
Option C:	f+c
Option D:	f-c
Q16.	In fixed hair method, the distance between hair and hair
	are fixed.
Option A:	Upper and central
Option B:	Central and lower
Option C:	Upper and lower
Option D:	Lower, central and upper
Q17.	Which of the following is the branch of angular surveying in which both the
	horizontal and vertical positions of points are determined from the instrumental
	observations, the chain surveys being entirely eliminated?
Option A:	Tacheometry
Option B:	Contouring
Option C:	Ranging
Option D:	Random line method
Q18.	The magnification of the telescope in tacheometer should be at least to diameters.
Option A:	10 to 20
Option B:	10 to 30
Option C:	20 to 30
Option D:	20 to 40
Q19.	The various stages occurring in GPS system are described below: 1. Generation
	of an output to the user 2. Detection of the GPS signals 3. Processing the data in
	the built in computer 4. Decoding the GPS signal. The correct sequence of the
	stages is:
Option A:	1,2,3,4
Option B:	2,3,4,1
Option C:	2,4,3,1
Option D:	3,1,2,4
	
Q20.	technology is a fast and accurate method of determining the location of
	point.
Option A:	GIS
Option B:	GPS
Option C:	FEM
Option D:	Total station

Q21.	One of the limitations of GPS is
Option A:	It has to have connectivity with orbital satellite
Option B:	Not speedy
Option C:	Not accurate
Option D:	Difficult to install
Q22.	For a curve of radius 100 m and normal chord 10 m, the Rankine's deflection
	angle, is
Option A:	0'25'.95
Option B:	0'35'.95
Option C:	1'25'.53
Option D:	2'51'.53
Q23.	If 'L' is in kilometers, the curvature correction is
Option A:	58.2 L^2 mm
Option B:	64.8 L^2 mm
Option C:	74.8 L^2 mm
Option D:	78.4 L^2 mm
Q24.	An ideal vertical curve to join two gradients, is
Option A:	Circular
Option B:	Parabolic
Option C:	Elliptical
Option D:	Hyperbolic
Q25.	If 'S' is the length of a sub-chord and 'R' is the radius of simple curve, the angle of
	deflection between its tangent and sub-chord, in minutes, is equal to
Option A:	573 S/R
Option B:	573 R/S
Option C:	1718.9 R/S