Program: Civil Engineering

Curriculum Scheme: Revised 2016

Examination: Second Year Semester : IV

Course Code and Course Name: CE-C402 Surveying II

Time: 1 hour **Max. Marks: 50**

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

Q1.	Which process can be used for setting a small curve?
Option A:	Offsets from radial offsets
Option B:	Offsets from perpendicular tangents
Option C:	Bisection of arcs
Option D:	Offsets from chords
Q2.	The points that are set by using the method of tangents will lie on _____
Option A:	Tangent
Option B:	Chord
Option C:	Arc of circle
Option D:	Parabola
Q3.	Find the value of mid-ordinate if the radius of the curve is given as 40.62 m and length as 10.2m.
Option A:	0.43
Option B:	0.22
Option C:	0.12
Option D:	0.33
Q4.	According to Rankine's method, the formula for finding deflection angle can be given as _____
Option A:	$\delta = 1718.9 * C / R$

Option B:	$\delta = 1718.9 * C + R$
Option C:	$\delta = 1719.8 * C * R$
Option D:	$\delta = 1781.9 * C / R$
Q5.	Compound curve can be designated by_____Angle subtended by a chord of any curvature
Option A:	Angle subtended by a chord of any curvature
Option B:	Angle subtended by a chord of known radius
Option C:	Angle subtended by a chord of known length
Option D:	Angle subtended by a chord of any length
Q6.	Position of a celestial body can be determined by _____
Option A:	Nadir
Option B:	Azimuth
Option C:	Zenith
Option D:	Co-ordinates
Q7.	Which among the following is used in the formation of the astronomical triangle?
Option A:	Zenith
Option B:	Nadir
Option C:	Meridian
Option D:	Azimuth
Q8.	The lens used in aerial photogrammetry is having a maximum coverage capacity of _____ (in angles)
Option A:	93 Degree
Option B:	63 Degree
Option C:	53 Degree
Option D:	98 Degree

Q9.	The relation between velocity, wavelength and frequency can be given as _____
Option A:	$\lambda = c / r$
Option B:	$\lambda = c / f$
Option C:	$\lambda = c / h$
Option D:	$\lambda = h*c / f$
Q10.	Remote sensing uses which of the following waves in its procedure?
Option A:	Electric field
Option B:	Sonar waves
Option C:	Gamma- rays
Option D:	Electro-magnetic waves
Q11.	Which among the following EDM instruments is having more range?
Option A:	Infra-red instruments
Option B:	Visible light instruments
Option C:	Microwave instruments
Option D:	Gamma ray instruments
Q12.	When total station is sighted to the target, which of the operation acts first?
Option A:	Rotation of optical axis
Option B:	Rotation of vertical axis
Option C:	Rotation of horizontal axis
Option D:	Rotation of line of collimation
Q13.	Which of the following indicates the correct set of the combination of total station?
Option A:	Theodolite, compass
Option B:	Theodolite, EDM

Option C:	Electronic theodolite, EDM
Option D:	EDM, GPS
Q14.	Which of the following is made in connection with the construction of streets, water supply systems, sewers?
Option A:	Traverse surveying
Option B:	Hydrographic surveying
Option C:	Cadastral surveying
Option D:	City surveying
Q15.	Which of the following is a classification based on the instrument used?
Option A:	Topographic surveying
Option B:	Hydrographic surveying
Option C:	Cadastral surveying
Option D:	Traverse surveying
Q16.	GIS uses the information from which of the following sources?
Option A:	Non- spatial information system
Option B:	Spatial information system
Option C:	Global information system
Option D:	Position information system
Q17.	Which of the following formats can be used for GIS output?
Option A:	DXF
Option B:	PDF
Option C:	GIF
Option D:	HTML
Q18.	Two contour lines of different elevations unite to form one line only in the case of _____

Option A:	Hills
Option B:	Vertical cliff
Option C:	Horizontal cliff
Option D:	Overhanging Cliff
Q19.	Which of the following survey is adopted while inspecting a vessel and the systems of boats?
Option A:	Marine survey
Option B:	Rain gauge survey
Option C:	River gauge survey
Option D:	Land survey
Q20.	Which of the following is made in connection with the construction of streets, water supply systems, sewers?
Option A:	Traverse surveying
Option B:	Hydrographic surveying
Option C:	Cadastral surveying
Option D:	City surveying
Q21.	Determining points of strategic importance are called _____
Option A:	Topographic surveying
Option B:	City surveying
Option C:	Military surveying
Option D:	Traverse surveying
Q22.	Triangulation surveys are carried out for locating
Option A:	Control points for surveys of large areas
Option B:	Control points for photogrammetric surveys
Option C:	Engineering works, i.e. terminal points of long tunnels, bridge abutments, etc.
Option D:	All the above

Q23.	Pick up the correct statement from the following:
Option A:	One degree of longitude has greatest value at the equator
Option B:	One degree of longitude has greatest value at the poles
Option C:	One degree of longitude has the same value everywhere
Option D:	One degree of latitude decreases from the equator to the poles
Q24.	If *'δ'* is the declination of the star and *'φ'* is the latitude of the observer, then the azimuth of the star at elongation is given by
Option A:	$\sin z = \sec \varphi \, . \cos \delta$
Option B:	$\cos z = \sec \varphi \, . \cos \delta$
Option C:	$\tan z = \sec \varphi \, . \cos \delta$
Option D:	None of these
Q25.	The coverage is least if photography is
Option A:	High oblique
Option B:	Low oblique
Option C:	Vertical
Option D:	None of these