

Important Note:

www.FirstRanker.com

www.FirstRanker.com

c,	USN			CS	SCHE	ME	LIBRAR ™H/K0o¥ ^I	18CV35
	Third Semester B.E. Degree Examination, Dec.2t "AsofErIgg' n.2020 Basic Surveying							
	Tim	e: 3	3 hrs.				Max. M	Marks: 100
ti		N	ote: Answer any FIVE fall question	ons, cho	oosing ONI	E fall question	n from each modu	le.
as CO co Q		a. b. c.	Define and explain plane and Ge Name and. Explain important sou Explain the terms Plans and Map	odetic s	Errors in s			(08 Marks) (06 Marks) (06 Marks)
ci as —	 OR a. A field tape, standardized at 20°C measured I00.0056m. Determine the temper which it will he exactly of the nominal length of 100m. Take = 11.2 x 10⁻⁶ per °C b. Name and explain the various instruments for chaining in sur veying. Module-2 3 a. Distinguish between prismatic and surveyor's compass. b. Name and briefly explain temporary adjustments for prismatic compass. c. Define local attraction and explain the Elimation of local attraction in compass surveyor. 							
7; ti.) e-•:- O							compass.	(08 Marks) (06 Marks) rveying. (06 Marks)
co O • • 0 01) 0 cz	4	a. b.	Explain with sketches an open to Determine the correct magnetic in running a closed traverse:				wing bearings we	(06 Marks) re observed
3 0 cc cc 0 C,				Line AB BC CD DE EA	F.B 71° 05' 110° 20' 161° 35' 220° 50'	B.B 250' 20' 292°35' 341° 45' 40° 05'		
ci) 1 ²	5	a. b.	Define leveling and explain it. Describe with neat sketch parts	M	300° 50' odule-3 py level.	121° 10'		(14 Marks) (04 Marks) (16 Marks)
tant Note:	6	a.	Explain the terms mentioning th i) Station		OR			

Back sight

Turning point

Height of Instruments.

ii)

iii)

iv)

(08 Marks)



www.FirstRanker.com

www.FirstRanker.com

- b. A level is set up on an extended line BA in a position 70m from A and 100m from B, 1.684m on a staff held at A and 2.122m on a staff held at B, the bubble having carefully brought to the centre of its run before each reading. It is known that the redo: levels of the tops of the pegs at A and B are 89.62m and 89.222m respectively. Find:
 - i) The Collimation error.
 - ii) The Reading that would have been obtained has there been no Collimation error.

(12 Marks)

Module-4

7 a. Explain the working operations of plane table.

(06 Marks)

- b. Explain Radiation and Traversing methods of plane table surveying with sketches. (08 Marks)
- c. Describe with sketches two-point problem in plane table surveying.

(06 Marks)

OR

8 a. Explain briefly Intersection and Resection Methods of plane table surveying with sketches.

(10 Marks)

b. Describe the different Errors in plane table surveying.

(10 Marks)

Module-5

a. What are the General methods of determining Areas?

(04 Marks',

- b. A series of offsets were taken from a Chain line to a curved boundary line at Intervals of 15 meters in the following order 0, 2.65, 3.8, 3.75, 4.65, 3.6, 4.95, 5.85m. Computer the area between the chain line, the curved boundary and the end offsets by
 - i) Average ordinate rule
 - ii) Trapezoidal rule
 - iii) Simpson's rule.

(16 Marks)

OR

10 a. Explain with sketch planimeter.

(07 Marks)

b. What are the methods of locating Contours in Surveying?

(08 Marks)

c. Explain the calculation of the volume of the capacity of a reservoir with any one relationship. (05 Marks)