B. ARCHITECTURE 2nd YEAR 1st SEMESTER EXAMINATION- 2019 (2nd Year, 1st Semester) SURVEYING

Time: Three Hours

Full Marks 100

No. of questions	S	Marks (4 X 25=100			
1 (a)		ort notes on:			(4 A 23-100
	(i) Invar	tape (ii) Recipro	cal ranging (iii) H	lypotenusal allowance (iv) Random error	[3x4=12]
(b)	Explain with sketch the method of Chaining on sloping ground				[5]
(c)	A line was the measure the pull a the tape was 3.5×10-6 a				
2 (a)	Explain the	[3+2]			
(b)	Write short notes on: (i) Well conditioned triangle (ii) Oblique offsets. (iii) Base line (iii) Reconnaissance [2.5x4 = 10.1]				
(c)	When chai with the he	$\begin{bmatrix} 2.5x4 = 10 \end{bmatrix}$			
(d)	Find the m not exceed scale was 2	[5]			
3 (a)	Define the (i) True bea				
(b)	(i) True bearing (ii) Whole circle bearing (iii) Magnetic declination (iv) Isogonic lines Convert the following reduced bearings to whole circle bearings: (i) N 30°15′ E (ii) S 37°30′E (iii) S 27°45′W) (iv) N 46°00′W				
(c)	Following bearings were recorded while traversing with a compass for a closed traverse:				[1.5x4 = 6]
	Line	FB	BB		•
	AB	16°45′	198°00′		
	BC	224°30′	47°30′		[7:2:2]
1	CD	207°15′	25°45′		[7+3+3]
	DE	67°45′	247°30′		•
	EA	155°15′	332°45′		•
[]	(II) Calculate	the angles	cal attraction, if a	ny. the true bearings.	
4 (a) I	Define the fo	ollowing terms in	n connection with	levelling:	[1.5x4 = 6]

B. ARCHITECTURE 2nd YEAR 1st SEMESTER EXAMINATION- 2019 (2nd Year, 1st Semester) SURVEYING

Time: Three Hours

Full Marks 100

No. of questions	(Answer any four of the following questions.)	Marks (4 X 25=100)
(b)	The following staff readings were recorded for a certain work of leveling 3.460, 2.734, 2.161, 2.405, 3.512, 1.907, 0.720, 1.156, 3.210, 2.146, 1.786 and 2.768. First reading was taken on a B.M and the level was shifted after the 4 th and 8 th readings. If the RL of BM was given as 249.5, find the RLs of all other points using rise and fall method. If the distance between the BM and the last station is 1500m, what is the average slope between these points?	[7+2]
(c)	Write a short notes on: (i) Profile levelling (ii) Fly levelling	[5+5]
5 (a)	What are the accessories required for plane table survey? What do you understand by 'centering' operation in plane table survey?	[2+2]
(b)	What are the methods used for plane table survey? Explain the 'method of Intersection' with a neat sketch. What are the advantages of 'method of intersection' over other methods?	[2+6+2]
(c)	Define three point problem. Describe tracing paper method for the solution of three point problem with a neat sketch.	[2+6]
(d)	What are the sources of error in plane tabling?	[3]