CBCS SCHEME



USN						

	S	Second Semester B.Arch. Degree Examination, July/August : Site Surveying and Analysis	2021		
Tir	ne: 3	3 hrs. Max. N	Max. Marks:100		
		Note: Answer any FIVE full questions.			
1	b.	Distinguish between Plane surveying and Geodetic surveying. List the applications of Surveying. The area of the plan of an old survey plotted to a scale of 10m to 1cm meas 100.2cm ² as found by planimeter. The plan is found to have shrunk so that a lin 10cm measures 9.7cm only. Find i) Shrunk scale ii) True area.	(06 Marks) (06 Marks) ures now as ne originally (08 Marks)		
2	b.	With a neat sketch, explain Indirect or Reciprocal ranging. List the types of chains and tapes used in Surveying. With a neat sketch, explain the use of a Line ranger.	(08 Marks) (08 Marks) (04 Marks)		
3	a. b.	Explain the various accessories used in plane table surveying. Explain with a neat sketch, Main station, Tie station, Base line, Check line, O			
4		Define the following terms used in leveling: i) Elevation ii) Bench mark iii) Fore sight v) Line of collimation. The following reading were observed successively with a leveling instrinstrument was shifted after 5 th and 11 th readings. 0.585, 1.735, 3.295, 3.71.300, 1.795, 2.575, 3.375, 3.895, 1.735, 0.635 and 1.605. Draw a page of a level determine the RL of various points if the RL of point on the BM = 1000 arithmetic check	75 , 0.350 , vel book and		
5		Write short notes on: i) Contour gradient ii) Horizontal equivalent iii) Interpolation of contours. List the uses of Contour maps. Explain the method of measurement of horizontal angles by method of reiteration	(06 Marks) (06 Marks) n.(08 Marks)		
6		What is a Contour Line? List the various characteristics of Contours. Explain briefly the temporary adjustments in Theodolite. Define the terms: i) Transiting ii) Face left observation.	(10 Marks) (06 Marks (04 Marks)		
7	Exp a.	plain how the analysis of a site (upto 1 acre) is done with respect to the following Microclimate b. Vegetation c. Topography.	factors : (20 Marks)		
8	a. b.	Explain in detail Aerial and Terrestrial topography. Explain Reconnaissance survey during observation of a site.	(12 Marks) (08 Marks)		
9	a. b.	Explain the following terms in detail: i) Horizontal and Vertical controls ii) Reference grids. Explain the various process involved in setting out of centre lines of a building.	(10 Marks) (10 Marks)		
10	a. b.	Explain the different types of Land survey drawings. What are the various notations to be indicated in Survey drawings (Any 10)?	(10 Marks) (10 Marks)		