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Attempt FIVE out of EIGHT questions (Q.2 to Q.9). Q1. 1) What are used to mark the positions of the stations or terminal points of survey line? a) Arrows b) Pegs c) Ranging rods d) Plumb bob (2marks) 2) Which cross staff consists of two pairs of vertical slits giving two lines of sights at right angles to each other? a) Open cross staff (b) French cross staff c) Adjustable cross staff d) In all types (2marks) 3) Which of the following is not a method, of levelling? a) Barometric leveling b) Trigonometric levelling c) Spirit leveling d) Traverse leveling (2marks) 4) Which branch of surveying is used to find the elevations of given points with respect to given or assumed datum? a) Levelling b) Contouring c) Traversing d) Plane table surveying (2marks) 5) Which line passes through a point, such that plane passing that point and the north and south poles, intersects with the surface of the earth? a) True Meridian b) Magnetic Meridian d) Survey line (2marks) c) Arbitrary Meridian

Time: 3 Hrs.

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Roll No.

INSTRUCTION TO CANDIDATES :

- Question no. 1 is compulsory. 1.
- 2.

Total No. of Questions : 09

B.Arch. (Sem.-3) SURVEYING AND LEVELLING-I Subject Code : AR-233 M.Code: 45026

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Total No. of Pages : 02

Max. Marks: 50



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Q2.	a) State the objective of levelling	(2marks)
	b) State the fundamental lines of level?	(2marks)
	c) How is the accuracy of reduction level checked	(2marks)
	d) State the use of tilting level.	(2marks)
Q3.	scribe various type of survey used in land survey ? which type will you suggest to plan ds in approximately 50 acers in hill area ? (8marks)	
Q4.	Explain the Auto level and staff with neat sketches?	(8marks)
Q5.	The following consecutive readings were taken with a level and 4.0m Staff on a continuously sloping ground at a common interval of 30 m - 0.780, 1.535, 1.955, 2.430, 2.985, 3.380, 1.250, 1.860, 2.365, 3.540, 0.935, 1,145, 1.630 and 2.645.	
	The RL of first point A was 100.80- m. Rule out a page of level bo readings. Calculate the RL of all the points by Rise & Fall Method gradient of the line joining the first & last point. (8marks)	
Q6.	a) Describe Abney level and tangent clinometers.	(4marks)
	b) Differentiate between compass survey and plane table survey.	(4marks)
Q7.	a) Explain the plane table survey.	(4marks)
	b) Differentiate between compass survey and plane table survey.	(4marks)
Q8.	Define the following terms :	$(2 \times 4 = 8 \text{ marks})$
	a) Back sight, Intermediate sight, Foresight, Change point, Height of In	nstrument
	b) State the use of tilting level.	
	c) How is the accuracy of reduction level checked?	
	d) State the advantages of Auto set Level.	
Q9.	Define the following Terms :	(8)
	a) Centering	
	b) Transiting	
	c) Swinging	
	d) Transit station	
	e) Transit line	
NOTI	E : Disclosure of identity by writing mobile number or making passin	ig request on any

page of Answer sheet will lead to UMC case against the Student.

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