



KD-6077

B. Arch. I (Sem. II) Examination
December - 2012
Surveying & Levelling

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांशों में निशानीवाणी विगतो उत्तरवही पर अवश्य लिखनी. Fillup strictly the details of signs on your answer book.		Seat No. :	
Name of the Examination :		<input type="text"/>	
B. Arch. I (Sem. II)		<input type="text"/>	
Name of the Subject :		<input type="text"/>	
Surveying & Levelling		<input type="text"/>	
Subject Code No. : <input type="text"/> 6 <input type="text"/> 0 <input type="text"/> 7 <input type="text"/> 7		Section No. (1, 2,.....) : <input type="text"/> Nil	
		Student's Signature	

- (2) Assume suitable data and specifically mention it.
(3) Figures to the right indicate full marks.
(4) Use of nonprogrammable scientific calculator is permitted.

- 1 (a) Explain following : (Any three) 06
Geodetic surveying, chain triangulation, BM, centering, offset, theodolite
- (b) what is traverse ? how traverse survey is done in field using compass. 05
- 2 Attempt Any two 10
- (a) Tabulate & Calculate RL of all the stations if following readings are taken with a 3 m leveling staff. Instrument is shifted after 3rd & 5th reading. Benchmark was taken on a 1st station having 100 m RL.
1.5, 1.5, 2.5, 2.2, 2.5, 1.5, 0.5, 2.5, 2.0
- (b) Following readings are taken with a prismatic compass. Calculate internal angles. bearing of line AB, BC, CD & DE are 60°, 130°, 190°, 340° respectively.
- (c) Instruments used in plane table surveying
- 3 (a) Calculate area bounded between Chain line & Boundary using simpson's method 05
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|----------------|---|----|----|----|----|
| Offset (m) | 5 | 3 | 8 | 10 | 6 |
| Chain edge (m) | 5 | 10 | 15 | 20 | 25 |
- (b) Explain method of radiation & intersection in plane table surveying 05

- 4 (a) Explain following terms : IS, Meridian, RB, local attraction, magnetic declination 5
- (b) characteristics & use of countour. 5
- 5 **Write short notes on following (Any Three) 09**
1. Profile levelling
 2. Total station
 3. Prismatic compass
 4. property documents
 5. Use of GIS in surveying
 6. Dumpy level
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