



UG-6077

B. Arch. I (Sem. II) Examination

May/June – 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"/>
<input type="text" value="B. Arch. I (Sem. II)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Surveying & Levelling"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="7"/>	Section No. (1, 2,.....) : <input type="text" value="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 terms. (any three) 6
Station, Levelling, Orientation, Ranging, Peg, HI
- (b) How chain survey is done in field. 5
- 2 Attempt any two. 10
- (1) Tabulate and calculate RL of all the stations if following readings are taken with a 3 m leveling staff. Instrument is shifted after 2nd & 5th reading. Benchmark was taken on a 1st station having 100 m RL,
0.5, 1.5, 2.5, 2.2, 2.1, 1.5, 0.5, 0.8, 1.0
- (2) Following readings are taken with a prismatic compass. Calculate internal angles fore bearing of line AB, BC, CD & DA are 45°, 120°, 180°, 300° respectively.
- (3) Instruments used in chain surveying.

- 3 (a) Calculate area bounded between Chain line and Boundary using trapezoidal rule. 4

<i>Offset(m)</i>	5	3	8	10
<i>Chain edge(m)</i>	5	10	15	20

- (b) Explain any two methods of plane table surveying. 6
- 4 (a) Explain following terms : BS, Meridian, WCB, RL, BM. 5
- (b) Explain instruments used in leveling. 5
- 5 Write short notes on following. (any three) 9
- (1) Characteristics of contours.
 - (2) Total station.
 - (3) Prismatic compass.
 - (4) Property documents.
 - (5) Use of GIS in surveying.
 - (6) Planimeter.

