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Total No. of Pages : 01

Total No. of Questions : 09

**B. Architecture (2012 & Onwards) (Sem.-3)****SURVEYING AND LEVELLING – I****Subject Code : BACH-308****M.Code : 70420****Time : 3 Hrs.****Max. Marks : 50****INSTRUCTIONS TO CANDIDATES :**

1. Attempt FIVE questions (Q.2 to Q.9) along with Q.No. 1.
  2. Question no. 1 is COMPULSORY.
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1. a) Series of offset were taken for base chain line on the curve boundary at distance of 20 m interval in the following order 0.7m , 1.0m , 1.2m, 1.5m 1.2m 1.0m 0.5m. Find the area between chain line and curved boundary (4)  
b) What are the sources of error in chaining? What precautions would you take to avoid them? (4)
  2. What is two point theorem explain with example? (8)
  3. a) Enlist different methods of plane tabling. Explain method of intersection. (4)  
b) What is orientation? Discuss the different methods of orientation of a plane table. (4)
  4. Explain two point problem of resection in plane table survey. (8)
  5. Explain process of setting up of plane table in the field. (8)
  6. Define the term 'Contour', 'Contour line', 'Contour interval', 'Horizontal equivalent'. State the objectives of contour map. (8)
  7. a) Compare/distinguish between trigonometric levelling and direct levelling. (4)  
b) State disadvantages of plane table survey. (4)
  8. Enlist various methods of plane tabling. Explain method of Traversing with neat sketch.(8)
  9. Explain following survey instruments with methodology? (Draw neat sketches)
    - a) Hand level (4)
    - b) Plumb bob (4)

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

