Seat No.

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MAR_APR 2026 SUMMER EXAMINATION

1154 B.Tech. CBCS

Sub. Name: Surveying-II

Sub. Code: 63345/79113/79401

Day and Date: Saturday ,23-05-2026 **Total Marks: 70**

Time: 10:30 AM To 01:00 PM

Instructions:
1. **Assume suitable data wherever necessary and mention it boldly**
2. **Draw neat labelled diagrams wherever necessary**
3. **Figures to the right indicate full marks**
4. **Use of Scientific calculator is allowed**

Special Inst.: **Attempt any three questions from question number 1 to question number 4**
Attempt any three questions from question number 5 to question number 8

Q1) a) Explain principle of tacheometry with neat sketch [06] **[12]**
b) What are the methods of determining Tacheometric constants.Explain any one method with neat sketch [06]

Q2) a) Explain classification of signals with neat sketch. [05] **[11]**
b) Explain procedure and use of subtense bar with neat sketch [06]

Q3) a) Explain detailed survey for road project [05] **[11]**
b) Explain principle of EDM with neat sketch [06]

Q4) Attempt any **three** from the following **[12]**
a) Explain in brief auto reduction tacheometer [04]
b) Explain principle of triangulation [04]
c) Radial contouring [04]
d) Explain criteria for base line selection [04]

Q5) a) Two tangents AB & BC intersect at B .Another line DE intersects AB & BC at D and E such that angle DEC = 140° and angle ADE = 150°.The radius of the first curve is 200 m and that of the second is 300 m. The chainage of B is 950 m.Let us calculate all data necessary for setting out the compound curve. [08] **[12]**
b) Draw neat sketch of simple circular curve and explain its notations [04]

Q6) a) Explain flight planning in detail [05] **[11]**
b) Explain Terrestrial Photogrammetry and Aerial Photogrammetry [06]

Q7) a) Explain applications of GPS in civil engineering [05] **[11]**
b) Explain basic components of GIS [06]

Q8) Attempt any **three** from the following **[12]**
a) Explain scale of vertical photographs with neat sketch [04]
b) Drift and crab [04]

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c) Applications of remote sensing in civil engineering [04]
d) Photo theodolite [04]

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.
सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (101) Bachelor of Engineering (79401) Surveying-II Part 2 SEM 4
2] (1154) B.Tech. CBCS (79113) Surveying-II Part 2 SEM 4
3] (101) Bachelor of Engineering (63345) Surveying-II Part 2 SEM 4

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