

R09

Code No: 56096

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, November/December - 2020

MINE SURVEYING - II

(Mining Engineering)

Time: 2 hours

Max. Marks: 75

**Answer any five questions
All questions carry equal marks**

1. Derive Expressions for the Horizontal distance D and the vertical intercept V when the staff is normal to line of sight? [15]
- 2.a) Define the terms "Tangent Distance" and "Mid ordinate".
b) Explain the terms "Simple curve" and "Compound curve" [7+8]
- 3.a) Define the term "Photogrammetry".
b) Determine the number of photographs required to cover an area 25 km × 20 km. if the scale is 1 in 10, 000 and the format is 230 × 230 mm. Take longitudinal lap as 60% and the side lap as 30%. [5+10]
4. Explain the procedure for determination of Azimuth. [15]
5. Explain the Survey for connecting national grid. [15]
6. Explain the application of GIS in Mining Engineering field. [15]
7. State the Principle of working of EDM used in mines. [15]
8. Explain about the Geographical Information system. [15]

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