



C14-MNG-505

**4658**

**BOARD DIPLOMA EXAMINATION, (C-14)**

MARCH / APRIL - 2019

**DMNG - V SEMESTER EXAMINATION**

**ADVANCED SURVEYING**

Time : 3 Hours]

[Total Marks : 80

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**PART - A**

**3×10=30**

**Instructions :**

- (1) Answer **ALL** questions.
- (2) Each question carries **THREE** marks.
- (3) Answer should be *brief and straight to the point and shall not exceed five simple sentences.*

- 1 State the basic principle with electronic instruments.
- 2 List the different components of EDM instrument.
- 3 Write in brief about the resolution related to remote sensing.
- 4 Write about sensors used in remote sensing.
- 5 State the causes or errors and corrections in GPS observations.
- 6 State the purpose of DGPS.
- 7 Define the term Raster format of image.
- 8 List the uses of total station.
- 9 Define the term 'Resection'.
- 10 Define the term 'Remote elevation'.

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[ Contd...

**PART - B**

**10×5=50**

- Instructions :**
- (1) Answer any **FIVE** questions.
  - (2) Each question carries **TEN** marks.
  - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11 Explain the methods of measuring distance with electronic instruments.
- 12 Explain the working principle of Electromagnetic distance measuring system.
- 13 Explain the effects of Electro Magnetic Radiation (EMR) with atmosphere.
- 14 Explain the procedure for planning and realization of GPS observations.
- 15 Explain the procedure to digitize various mine plans into different layers using GIS.
- 16 Explain the method of transferring GPS data into total stations.
- 17 Explain the procedure for measurement of area with single station set up.
- 18 Explain the method of stakeout line between the given two points.

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