



C16-MNG-305

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BOARD DIPLOMA EXAMINATION, (C-16)  
MARCH/APRIL—2018  
DMNG—THIRD SEMESTER EXAMINATION  
MINE SURVEYING—I

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

**Instructions** : (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. State the principles of surveying.
2. Define the term ranging.
3. State the purpose of chain surveying.
4. List the reasons for incorrect length of chain.
5. Define the terms (a) magnetic declination and (b) Dip.
6. List the methods of levelling.
7. Define the term levelling.
8. State the purpose of subsidence levelling.
9. List the types of contours.
10. List the uses of theodolite.

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**PART—B**

10×5=50

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

- 11.** Explain the maintenance of plans and sections as per CMR.
- 12.** Define the terms (a) base line, (b) check line and (c) tie line.
- 13.** Calculate the interior angles of traverse provided the bearings of the side of traverse *ABCDE* are given as follows :

<i>Line</i>	<i>Fore bearing</i>	<i>Back bearing</i>
<i>AB</i>	87° 15	277° 15
<i>BC</i>	12°	192°
<i>CD</i>	271° 30	91° 30
<i>DE</i>	189° 15	9° 15
<i>EA</i>	124° 45	304° 45

- 14.** Explain the terms (a) simple levelling and (b) compound levelling.
- 15.** Describe the profile levelling method.
- 16.** List the uses of contour for mining engineer.
- 17.** Describe the continuous Azimuth method of traverse.
- 18.** Describe the repetition method of measurement of horizontal angle.

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