C16-MNG-406



5699

BOARD DIPLOMA EXAMINATION, (C-16) OCTOBER/NOVEMBER-2018 DMNG - FOURTH SEMESTER EXAMINATION

MINE SURVEYING – II

Time : 3 Hours]			[Total Marks: 80
	PART-A		3X10=30
3. Answer sh	tion carries Thr		o the point and shall not exceed
 State the Bowdich Rule of b Define the terms (a) V 	alancing the trav ertical curve	erse. (b) Super o	elevation.
 Write formula to compute State the purpose of correlation 		ong chord	(b) Raise of a simple curve
 5. Write in brief about Weisbac 6. State the triangle of Tacheor 	-		
 Write short notes on Anallat Define the terms (a) A 	ic lens. pparent dip	(b) Fault	
 9. List the applications of remo 10. List the modern surveying ed 	-	ning.	

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Contd,

PART-B

10X5=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. Calculate the length and bearing of the closing line – FA.

Line	Meridian bearing	Hor. Distance in m.
AB	34°	400
BC	305°	250
CD	275°30'	310
DE	225°	260
EF	148° 30'	395

12. Following are the total latitudes and departures of the vertices of a polygon in metres.

Calculate the area of the Polygon in Hectares.

Station	Total Latitude i(m)	Total departure (m)
А	0.00	0.00
В	+76.24	+432.33
C	-411.76	+432.33
D	-600.26	+105.83

13. Explain the method of setting out curve by chord and angle in underground

14. Describe the method of correlation by Co-Planning method

15. Explain the stadia method of Tacheometric survey .

16. (a) State the inter relation between true dip, apparent dip and strike of a mineral bed

(b) The full dip of a seam is 1 in 5 due South. Calculate the apparent dip in the direction of S 40° E

17. Three bore holes A, B and C supplied the following information of a coal seam:

Line	Bearing	Gradient
AB	S 40° E	1 in 6.5
BC	S 35° E	1 in 4.5

Calculate the direction and gradient of the true dip of the coal seam

18. State the principle of working of GPS used in Mines.

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