

3266

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH / APRIL - 2019

DMNG - III SEMESTER EXAMINATION MINE SURVEYING - I

Time: 3 Hours] [Total Marks: 80

PART - A

 $3 \times 10 = 30$

Instructions:

- (1) Answer ALL questions.
- (2) Each question carries THREE marks.
- (3) Answer should be brief and straight to the point.
- 1 List the classification of surveying.
- 2 List the reasons for incorrect length of chain.
- 3 List the steps in chain surveying.
- 4 Define the term reconnaissance.
- 5 Convert the Whole circle bearings (a) 20°30° (b) 97°30° into Quadrantal bearings.
- 6 Convert the Quadrantal bearings (a) N30°W (b) S45°E into whole circle bearings.
- 7 State the purpose of highest flood level.
- 8 State the applicability and merits of reciprocal levelling.
- **9** Define the term index error.
- 10 List the fundamental lines of a transit theodolite.

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PART - B $10 \times 5 = 50$

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.
- Explain the method of measuring distance on sloping ground (Stepping method) with sketch.
- 12 Describe the method of chaining where vision is free but chaining obstructed with sketch.
- 13 Explain the types of offsets and applicability of each.
- 14 Following are the observed bearings of the lines of a traverse. Calculate the interior angles. Apply usual check.

Line	F.B.	B.B.
AB	107°15¹	287°15¹
ВС	22°00¹	202°00¹
CD	281°30¹	101°30¹
DE	189°15¹	9°15¹
EA	124°45¹	304°45 ¹

- 15 Define the terms:
 - (a) Dip (b) Apparent dip (c) Included angle
- 16 (a) Explain the fundamental lines of dumpy level.
 - (b) List the temporary adjustments of dumpy level.
- 17 Explain the following with neat sketch:
 - (a) Simple levelling
 - (b) Compound levelling
- 18 Describe the repetition method of measurement of horizontal angle with neat sketch.

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