

c09-c-**305**

3221

BOARD DIPLOMA EXAMINATION, (C-09) MARCH/APRIL-2018

DCE—THIRD SEMESTER EXAMINATION

SURVEYING—II

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. Define latitude and departure of a survey line.
- 2. What do you mean by omitted measurements in theodolite survey?
- **3.** State any three instrumental errors in theodolite survey.
- 4. List out different methods of trigonometric levelling cases.
- 5. What are different methods of tacheometric surveying?
- 6. What do you mean by stadia tacheometry?
- **7.** Define simple circular curve.
- 8. List different angular methods of curve setting.
- 9. List various types of EDM instrument.

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10. Write a short note on GPS.

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PART-B

Instructions : (1) Answer any five questions.

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- (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 measurement of horizontal angle by the method of repetition.
- **12.** Explain with help of neat sketch, the fast needle method of traversing.
- **13.** Write the procedure to find the distance and elevation of an object whose base is inaccessible and the two instrument stations being in the same vertical plane.
- 14. The vertical angles corresponding to staff reading of 1 m and 3.5 m above the foot of the staff held vertically over a station A were 2°42 and 6°12. If the RL of trunnion axis is125.25, calculate the RL of the staff.
- **15.** How will you set out a circular curve with a chain and a theodolite by method of tangential angles?
- **16.** A left-handed circular curve of radius 400 m is to be inserted between two straights meeting at chainage 2320 m at an angle of 140° to one another. Prepare suitable data for setting the curve by offsets from chords produced. Assume a peg interval of 30 m.
- **17.** (a) Write any five uses of GPS in civil engg.

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- (b) List any five uses of photogrammetry.
- **18.** (a) Explain briefly the raster and vector data representation in GIS.
 - (b) State any five applications of GIS in transport planning.

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