C14-C-304

## 4228

## BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2021

## DCE - THIRD SEMESTER EXAMINATION

SURVEYING - II

Time: 3 hours] [ Total Marks: 80

## PART—A

 $4 \times 5 = 20$ 

- **Instructions**: (1) Answer *any* **five** questions.
  - (2) Each question carries **four** marks.
  - (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
  - List any four major parts of a dumpy level. 1.
  - 2. Define the following terms:
    - (a) Backsight
    - (b) Foresight
  - 3. What are different types of levels used in levelling?
  - 4. List any two types of benchmarks.
  - 5. State any four errors while doing levelling with dumpy level.
  - Draw the contour map of pond and show the RL on it. 6.

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7.	List out the methods	used to	measure	the	horizontal	angles	by	using
	a theodolite.							

- **8.** Define the term 'latitude and departure' of a survey line.
- **9.** Define the following terms :
  - (a) Line of collimation
  - (b) Transiting
- **10.** What are different checks that can be applied in closed theodolite traverse?

**PART—B** 15×4=60

**Instructions**: (1) Answer any four questions.

- (2) Each question carries fifteen marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **11.** The following consecutive readings were taken with a dumpy level :

1.850, 2.550, 2.400 and 3.115.

The RL of first point was 100.000. Rule out the page of level book and determine the RLs of various points by height of instrument method.

- **12.** Explain the common difficulties generally faced in levelling.
- **13.** Explain operations involved in simple levelling.
- **14.** Explain various uses of contour map.

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- **15.** Explain, how dumpy level is useful while construction of cement concrete road.
- **16.** List and explain the temporary adjustments of theodolite.
- **17.** Draw the neat sketch of a theodolite and mention the parts.
- **18.** Explain the procedure to measure the horizontal angle by repetition method.

