

### c16-c-**404**

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# BOARD DIPLOMA EXAMINATION, (C-16) SEPTEMBER/OCTOBER - 2020 DCE—FOURTH SEMESTER EXAMINATION

TRANSPORTATION ENGINEERING

Time : 3 hours ]

[ Total Marks : 80

3×10=30

#### PART—A

**Instructions** : (1) Answer **all** questions.

- (2) Each question carries three marks.
- 1. State any three characteristics of road transport.
- 2. List the data required for the preparation of a highway project.
- **3.** Write a short note on width of pavement.
- 4. Mention any three purposes why drainage is to be provided.
- 5. State any three functions of rails.
- 6. Draw a neat sketch of a loco yard.
- 7. Briefly write about the goods yard.
- 8. Define the following :
  - (a) Deck slab bridge
  - (b) Causeway
  - (c) Abutment

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- **9.** Sketch the component parts of a bridge.
- **10.** State any three factors of selection of site for a bridge.

Instructions : (1) Answer any five questions.

- (2) Each question carries **ten** marks.
- **11.** Define gradient. Explain in detail the various types of gradients giving the recommended values in different terrains as per IRC.
- **12.** Explain briefly various types of highway surveys or engineering surveys.
- **13.** (a) Name and sketch any five types of road intersections.
  - (b) Name and sketch any five types of traffic islands.
- **14.** Explain in detail the construction procedure of CC roads, including material required, methods of construction and machinery used.
- **15.** Explain in detail along with sketches how the drainage is provided for roads.
- **16.** (*a*) Mention three advantages and two disadvantages of cast-iron sleepers.
  - (b) Explain briefly any five types of ballast.
- **17.** Explain in detail any two types of railway yards along with sketches.
- **18.** Explain in detail any two types of culverts along with neat sketches.

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