

TED (10) 4012
(Revision -2010)

N20 – 00156

Reg. No.....

Signature

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER-2020**

TRANSPORTATION ENGINEERING

[Maximum Marks: 100]

[Time: 3 Hours]

PART-A

[Maximum Marks: 10]

(Answer **all** questions in one or two sentences. Each question carries 2 marks)

- I. 1. What is 'Right of Way' of a road.
2. Define super elevation.
3. What is soil stabilization.
4. Define creep of rail?
5. Differentiate between harbor and port.

(5 x 2 = 10)

PART-B

[Maximum Marks: 30]

(Answer any **five** of the following questions. Each question carries 6 marks)

- II 1. Write a short note on camber provided in roads?
2. Explain the difference between cut back and emulsion?
3. Explain the traffic volume studies.
4. Sketch different situations of at-grade intersections
5. List out the functions of ballast.
6. List the requirement of a good rail joint?
7. What are the factors to be considered while fixing the alignment of bridge.?

(5 x 6 = 30)

PART-C

[Maximum Marks: 60]

(Answer **one** full question from each Unit. Each full question carries 15 marks)

UNIT – I

- III (a) Explain administrative classification of roads as per IRC (7)
(b) Explain the component parts of a road structure. (8)

OR

- IV (a) Explain any four types of road gradient . (8)
(b) Write note on highway curves. (7)

UNIT - II

- V (a) Explain with sketch a Trumpet interchange for highways . (8)
(b) Explain the different types of traffic signs. (7)

OR

- VI (a) What are the advantages of cement concrete roads. (8)
(b) Write down the advantages and disadvantages of W.B.M road. (7)

UNIT- III

- VII (a) What is mean by signaling in railway engineering? List the classification of signaling in railway. (8)
(b) Explain different types of station yards. (7)

OR

- VIII (a) Sketch the cross section of a permanent way. (Single line in cutting) (8)
(b) Explain three types of marshalling yards (7)

UNIT - IV

- IX (a) Lis the factors to be considered while selecting the site for an airport. (8)
(b) Describe the classification of harbours. (7)

OR

- X (a) What are the different types of break waters. Explain vertical type break water with a neat sketch . (8)
(b) What are the factors affecting site selection of airport. (7)
