

III B. Tech I Semester Supplementary Examinations, February-2022
TRANSPORTATION ENGINEERING – II

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**
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PART –A

(14 Marks)

1. a) Draw a neat sketch of Permanent way. [2M]
- b) List the Gradients in railways. [2M]
- c) Draw a neat diagram of Diamond Crossing. [2M]
- d) Discuss the use of zoning laws for Airport. [3M]
- e) What is the maintenance of Airfield Pavement? [3M]
- f) How classification of Ports is done? [2M]

PART –B

(56 Marks)

2. a) Explain the functions of Rails. [7M]
- b) Discuss various theories of Creep in Rails. [7M]
3. a) Explain the Engineering surveys in alignment of railways. [7M]
- b) Discuss about negative super elevation. [7M]
4. a) Explain Left hand Turnout with neat diagram. [7M]
- b) Explain the objectives of Signaling. [7M]
5. a) Discuss the factors to be considered in the selection of Airport. [7M]
- b) Discuss about Type II Wind rose diagram. [7M]
6. a) Discuss various design factors to be considered for Airfield pavement. [7M]
- b) Explain the importance of drainage in airports. [7M]
7. a) Explain the requirements of good port. [7M]
- b) Discuss about construction of Quay walls. [7M]
