Q.P. Code: 16CE132



eg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech IV Year I Semester Supplementary Examinations February-2022 TRANSPORTATION ENGINEERING-II

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

6M

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(Answer all Five Units $5 \times 12 = 60$ Marks)

UNIT-I

- **a** Briefly explain about the construction and maintenance of gravel roads.
 - **b** Write brief introduction about highway drainage and list out their requirements and **6M** importance.

OR

- 2 a Explain step by step procedure of pre-mixed type construction of bituminous road
 6M
 6M
 6M adopted in reduction of sub surface water.
 6M UNIT-II
- 3 a Define the term railway engineering and how our Indian railways are broadly classified.
 6M
 b What is the role of ballast in railways? Explain in detail about their function,.
 6M

OR

- 4 a What are the various engineering surveys to be conducted in selection of permanent 6M way?
 - **b** Define a gauge. Explain briefly about different gauges that are adopted for construction **6M** of railways.

UNIT-III

5 a Explain in detail about various components of points and crossings with a neat sketch.
6M
6M
6M

OR

6 a What are the various types of turnout used in railway? Explain with a neat sketch.
 6 M
 b What is a marshalling yard? With a neat sketch, describe the working of a typical 6M
 6 Marshalling yard.

UNIT-IV

7 a What are the factors affecting in the selection of a site for an airport? Explain.
6M
6M b Explain the various surveys to be conducted and the data to be collected for airport site collection.

OR

Explain briefly about layout and functions of airport. 8 **6M** a What are the different systems of aircraft parking? Explain its suitability. b **6M UNIT-V** Classify harbours on the basis of utility and explain them. 9 a **6M** Define break water and explain its classification. b **6M** OR What is mean. Docks? Explain the dry docks and wet docks with neat sketch. 10 a **6M** Define break water and explain its classification. b **6M**

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