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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech IV Year I Semester Regular Examinations Nov/Dec 2019

TRANSPORTATION ENGINEERING –II

(CE)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Explain about capillary cut-off drainage & Control seepage drainage flow. **6M**
b List out the importance of highway drainage. **6M**

OR

- 2 Explain about the construction and maintenance of gravel roads. **12M**

UNIT-II

- 3 a Differentiate between road ways and railways. **6M**
b Explain briefly about different types of rails with neat sketch. **6M**

OR

- 4 a Why ballast need to use in construction of a railway track? **6M**
b Define coning of wheels and what are the advantages of it. **6M**

UNIT-III

- 5 a What are the various factors affecting the speed at turnouts. **6M**
b What are the various functions of left hand and right hand turnouts? **6M**

OR

- 6 a Explain the factors that should consider in selecting the site for a railway station? **6M**
b Define a railway yard and discuss the various types of yards? **6M**

UNIT-IV

- 7 a What are the factors affecting in the selection of a site for an airport? **6M**
b Explain the concept of Basic Runway Length. **6M**

OR

- 8 a What are the different surveys to be carried out for a site selection of an Airport? Explain them briefly. **6M**
b Explain the concept of Wind Rose diagram-II. **6M**

UNIT-V

- 9 a Distinguish between natural and artificial harbor. Draw a neat sketch of different types of Harbor. **6M**
b What is jetty? Explain open jetties, piled jetties, cylinder jetties and scrlcd cylinder jetties. **6M**

OR

- 10 a Explain with a neat sketch the operations of ladder dredger and mention any special advantages of it. **6M**
b Briefly explain the historical development of water transportation in India. **6M**

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