

LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular/ Backlog), March-April, 2016

B. Tech in Civil Engineering, Semester VI



Roll No.....

CE 611: TRANSPORTATION ENGINEERING-II

Time: 3 hours

Max. Marks: 100

Instructions to students:

- Do not write anything other than your roll number on question paper.
- Assume suitable data wherever required and mention it clearly.
- Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

- Q.1 A Objective type multiple choice questions (10 questions @ 1 mark) 10
- Aerodrome is associated with; a) Highway, b) Railway, c) Roadway, d) Airway
 - The intermediate spacing of runway varies from; a) 210 m to 750 m, b) 750 m to 1300 m, c) 400 to 650 m, d) 800 to 1000 m
 - Apron is associated with; a) loading and unloading, b) Take off, c) Storage, d) all of the above
 - Hangar is associated with; a) runway size, b) taxiway size, c) aircraft size, d) apron size
 - The close spacing of runway varies from; a) 750 m to 1300 m, b) 210 m to 750 m, c) 200 to 650 m, d) 1300 m and more.
 - The first Indian railway was laid in; a) 1775, b) 1825, c) 1853, d) 1876.
 - The length of B.G is; a) 0.67m, b) 1.00m, c) 1.676m, d) None of the above.
 - Long lasting sleepers are; a) Cast iron, b) Concrete, c) Wooden, d) None of the above
 - The weight of the rails depends upon: a) gauge of the tracks, b) speed of trains, c) spacing of sleepers, d) All of the above.
 - The length of M.G is; a) 1.676 m, b) 1.00m, c) 0.67m, d) None of the above.
- Q.2 Short answer type questions (4 questions @ 2.5 marks) 10
- Define turnout and explain its classification?
 - Write a short note on hangar?
 - Write in short about railway engineering?
 - List down the component of P. Way and explain them?
- Q.3A Explain the various survey carried out in respect to railway engineering? 05
- Q.3B Explain the criteria for selecting the gauge? 05
- Q.4A Enlist the factors consider for selecting site for airport? 05
- Q.4B Explain the points that you will consider while designing a taxiway? 05
- Q.5A Enlist the factors consider for taxiway and explain them? 05
- Q.5B Compare railways with airways? 05

Q.6A	Define:- a) Airport capacity, b) Aerodrome, c) Airfield, d) Apron, e) Airport.	05
Q.6B	Explain the various ideal requirements for a sleeper?	05
OR		
Q.6B	Describe briefly permanent way with a neat sketch?	05
Q.7A	Enlist and explain the factors affecting the airport size?	05
Q.7B	Write a short note on wind rose diagram?	05
OR		
Q.7B	Explain the necessity of points and crossing in railways?	05
Q.8A	Write a brief note on transportation engineering?	10
Q.9A	Explain wind rose diagram with a net labelled sketch?	10
Q.9B	Compare railway, highway & airways engineering?	10
OR		
Q.9B	Enlist & explain various factors considered while selecting an alignment?	10

Best of Luck
