Total No. of Questions: 5 ] [ Total No. of Printed Pages . 3 Roll No. .

## CE-501

B. E. (Fifth Semester) EXAMINATION, Dec., 2011

(Civil Engg. Branch)

TRANSPORTATION ENGINEERING - 11

(CE - 501)

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 35

¡Note: Attempt any five questions. All questions carry equal marks. Assume missing data suitably.

- 1. (a) What do you understand by "Annual Highway Cost" ? A cheapest road with high maintenance cost need not he best alternative. Explain.
  - (b) Discuss the different types of road classifications as per . Modified Classification of Road System (1981-2001).

Or

- (a) Write the method for providing superelevation. Discuss the role of extra widening of roads on curves.
- (b) What is use of horizontal curves in road alignments? Describe in brief various features of different types of curves provided in roads.

P. 1. O.

		[2]	CE-501
	(a)	What do you understand by C. B. R. ? Discin pavement design.	uss its use
	(b)	Discuss the advantages and disadvantages pavements.	of flexible 10
		Or	
	pave	te step by step method for design a cement ement. Assume traffic count and other soil and perties suitably.	
٠	(a)	What do you understand by "stabilization of Write in brief various methods of ground sta	ground"? bilization.
	(b)	What do you understand by rotary design rotary required?	nd why is
		Or	
	a)	What is the role of compaction in construction macadam road?	ruction of
	(b)	What is Intersection? Describe channel unchannelised intersections.	lised and
4.	(a)	Explain the significance of different characteristics.	aircraft
	(p)	How the runway alignment is decided? We use of windrose diagram in Airport Engineer Or	
	(a)	Discuss the various geometric standards for airports.	design of
	(b)	What is the meaning of "Airport Grading" in detail.	
5.	(a)	Write in brief about Threshold Lighting	
		Lighting.	10

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- (b) Write short notes on the following:
  - (i) Air traffic control
  - (ii) Instrumental landing system.

Or

(a) By drawing neat figure show various taxi way markings.

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(b) What are the different patterns for providing boundary lighting in an airport?

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