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PRN No.	
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PAPER CODE	U313-223-ESR
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**December 2023 (ENDSEM) EXAM**

**T.Y. B.TECH (SEMESTER - I)**

**COURSE NAME:  
TRANSPORTATION  
ENGINEERING**

**Branch: CIVIL  
ENGINEERING**

**COURSE CODE: CVUA31203**

**(PATTERN 2020)**

**Time: [1Hr. 30 Min]**

**[Max. Marks: 40]**

**(\*) Instructions to candidates:**

- 1) Figures to the right indicate full marks.**
- 2) Use of scientific calculator is allowed**
- 3) Use suitable data wherever required**
- 4) All questions are compulsory. Solve any one sub question from Question 3 and any two sub questions each from Questions 4,5 and 6 respectively.**

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Discuss the type of winding used in horizontal curve	[2]	CO1	Apply
Q2	a) Sketch the cross section of a flexible	[2]	CO2	Apply
Q3.	a) Explain concept of coning of wheel with figure	[6]	CO3	Understand
	b) Draw a neat sketch of right hand turnout and label all components	[6]	CO3	Understand
Q.4	a) Discuss are the factors which affect the selection of new site for airports	[5]	CO4	Apply
	a) Elaborate the concept of correction for elevation, gradient and temperature for runway length.	[5]	CO4	Apply
	b) What are the different types of pattern used in runway	[5]	CO4	Apply

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Q.5	a) Enlist types of load acting on bridge with their significance.	[5]	CO5	Apply
	b) Sketch any 3 types of bridge and discuss their significance	[5]	CO5	Apply
	c) Enlist any 3 types of bearings used in Bridge construction and discuss the situations in which they are used	[5]	CO5	Apply
Q.6)	a) Discuss Jetty and Wharf and situations in which they are used.	[5]	CO6	Understand
	b) Enlist the requirement of harbor and ports	[5]	CO6	Understand
	c) What is difference between dry and wet dock	[5]	CO6	Understand