

PRN No.	
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PAPER CODE	U313-223 (RE)
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December 2023 (REEXAM)

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

COURSE NAME:
TRANSPORTATION
ENGINEERING

Branch:
CIVIL ENGINEERING

COURSE
CODE:

CVUA31203

(PATTERN 2020)

Time: [2 Hrs.]

[Max. Marks: 60]

(*) 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 two sub questions each from each Question 1 ,2, 3,4,5,and 6 respectively

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Explain Nagpur Plan	[5]	CO1	Understand
	b) What is concept of PIEV theory	[5]	CO1	Understand
	c) Sketch the cross section of a flexible	[5]	CO1	Understand
Q2	a)What are different types of road interaction used in highways	[5]	CO2	Understand
	b) Elaborate accident studies	[5]	CO2	Understand
	c) What are different types of bitumen used in roads construction	[5]	CO2	Understand
Q3.	a)Classify the bridges according to their applications	[5]	CO3	Understand
	b)What are different types of load acting on bridges	[5]	CO3	Understand
	c) Sketch any 2 types of bridge and discuss their significance	[5]	CO3	Understand

Q.4	a)What are aircraft characteristics	[5]	CO4	Understand
	b) Elaborate the concept of correction for elevation, gradient and temperature for runway length.	[5]	CO4	Understand
	c) Why there is need of taxiway in airport	[5]	CO4	Understand
Q.5	a)Sketch the section of rails used in NG,MG and BG	[5]	CO5	Understand
	b) What is grade compensation? Why it is needed	[5]	CO5	Understand
	c) Elaborate concept of track maintenance.	[5]	CO5	Understand
Q.6	a)What is requirement of good harbors and ports.	[5]	CO6	Understand
	b)Classify the harbors	[5]	CO6	Understand
	c) What are jetties? What are their functions?	[5]	CO6	Understand