Total No. of Questions : 4]	80	SEAT No. :	
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Oct-22/BE/Insem-28 B.E. (Civil)

TRANSPORTATION ENGINEERING (2019 Pattern) (Semester - VII) (401002)

Time: 1 Hour] [Max. Marks: 30

Instructions to the condidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4,
- 2) Figures to the right indicate full marks
- 3) Use of logarithmic tables, slide rule, Mollies charts, electronic pocket calculator and steam tables is allowed.
- 4) Assume suitable data jf necessary.
- 5) Near diagrams must be drawn wherever necessary.
- Q1) a) Briefly explain the Jayakar committee and its recommendations. [4]
 - b) Explain the classification of roads as per Nagpur road plan. [5]
 - c) Enumerate salient features of road development plan vision 2021. [6]

OF

- Q2) a) Explain briefly the requirements of an ideal highway alignment. [4]
 - b) An imaginary area with existing roads. There are four alternate plan proposals P, Q, R and S with different road length by adding extra road links to the existing roads in the area and the details of the population and products served are given below:

 [5]

1	Total Road length km	IN U '.1 1 1'			Total agricultural and industrial	
		1001-2000	2001- 5000	5001- 10000	>10000	products thousand
P	300	160	80	30	6	tonnes 200
0	400	200	90	60	8	270
R	500	240	110	70 🗸	10	315
S	550	248	112	73	12	335

Workout the utility per unit length for each of the systems and indicate which of the plan yield the maximum utility based on saturation system.

c) Discuss briefly the various road patterns with neat sketches. [6]

P.T.O.

Q 3)	a)	Discuss the various vehicular characteristics which affect the design roads.	of [5]
	b)	What are the objectives of carrying out traffic volume study?	[5]
	c)	Discuss the various causes of accident and mention the measures reduce accident rate. OR	to [5]
Q4)	a)	With near sketches, explain any five traffic regulatory signs.	[5]
	b)	:0	
	c)	Write short notes on:	[5]
		Write short notes on: Parking studies Highway lighting BE/Insem-28 2 Sp. Mar. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Uct.	- <i>22/</i> B	BE/Insem-28 2	