В.	Paper ID: 2289543	(Following Paper ID an	Printed Pages: 3
В.ТЕСН.	Roll No.	(Following Paper ID and Roll No. to be filled in your Answer Books)	NCE-502

Printed Pages: 3

Regular Theory Examination (Odd Sem - V), 2016-17

TRANSPORTATION ENGINEERING-I

Max. Marks: 100

Time: 3 Hours

Note: Attempt all questions.

 Attempt all parts. Each parts carries equal marks.  $(10 \times 2 = 20)$ 

What is super elevation?

Define SSD?

Differentiate between Prime coat & Tack coat.

Define temperature stresses in concrete pavement.

What is design speed?

What is O.S.D?

Define rotary Intersection

What is kerbed stone?

Define the term GRADIENTS?

Define Camber with shapes.

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 $(5 \times 10 = 50)$ 

## Attempt any five questions Explain water bound macadam and bitumen bound

- ਭ procedure for surface dressing. What is surface dressing? Write the construction
- င Day. Design life is 20 years and rate of traffic A cement concrete pavement is to be designed increase is 5.5%. Calculate the design traffic as per Present traffic is 3000 commercial vehicles per IRC 58-2011.
- ٥ What are the various types of traffic control devices
- 0 Ð Coefficient of lateral friction is 0.15. Calculate the pavement. Describe CBR method for the design of flexible super elevation required if full lateral friction is The radius of a horizontal circular curve is 100 m The design speed is 50 km/ph and the design
- Discuss the Bombay Road Plan.

assumed to develop.

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Enumerate the various types of intersection and the basic principles involved

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## Attempt any two parts of the following (2×15=30)

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- Discuss Westergaards concept of temperature stresses in concrete pavement.
- concrete pavement and explain different types of Write the construction procedure for cement joints in cement concrete pavement.

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describe the procedure in brief as per IRC:37-2012. Write the flexible pavement design steps and

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