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## B.TECH.

Paper ID: 2289543

Roll No.

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

Time: 3 Hours

Note: Attempt all questions.

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

What is super elevation?

Differentiate between Prime coat & Tack coat.

Define SSD?

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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Max. Marks: 100

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Attempt any five questions

ঙ a) Explain water bound macadam and bitumen bound macadam.

င procedure for surface dressing.

**a** Discuss.

<u>e</u> Describe CBR method for the design of flexible pavement.

f) assumed to develop. super elevation required if full lateral friction is Coefficient of lateral friction is 0.15. Calculate the The radius of a horizontal circular curve is 100 m. The design speed is 50 km/ph and the design

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h basic principles involved Enumerate the various types of intersection and the

**NCE-502** 

 $(5 \times 10 = 50)$ 

What is surface dressing? Write the construction

increase is 5.5%. Calculate the design traffic as per Day. Design life is 20 years and rate of traffic Present traffic is 3000 commercial vehicles per A cement concrete pavement is to be designed IRC 58-2011.

What are the various types of traffic control devices.

Discuss the Bombay Road Plan.

Ę Attempt any two parts of the following

a) Discuss Westergaards concept of temperature

 $(2 \times 15 = 30)$ 

**NCE-502** 

stresses in concrete pavement.

joints in cement concrete pavement. concrete pavement and explain different types of Write the construction procedure for cement

<u>5</u>

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

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