Roll No.

Total Pages : 02

BT-7/M-20 37046 TRANSPORTATION ENGG.-II CE-405-E

Time : Three Hours]

[Maximum Marks : 100

Note Attempt*Five* questions in all, selecting and east question from each Unit. All questions carry equal marks.

Unit 👢

- Explain 'Flexible and Rigid' pavements and bring out the difference 20
- 2. Calculate the stresses at interior, edge and corner regions of a cementconcretepavementsing Westergaard's equations. Use the following data : Wheel load = 5100 kg., Modulus of elasticity of CC = 3×10 kg/cm Pavement thicknests8=cm. Poisson's ratios of concrete = 0.15, Modulus of subgrade reaction = 6 kg/emRadius of contact area = 15 c20

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1

Unit II

3. What is WBM roads ? Discuss briefly its construction.

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- 4. Write short notes on the following :
 - (a) Prime Coat
 - (b) Tack Coat.

Unit III

5. Explain the Benkelman beam test in deta20

6. Explain the surface and sub-surface drain 20 system.

Unit IV

- Explain the net present value techniques for evaluation of highway projects.
 20
- 8. Explain the heading and benching method in tunneling. 20

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2

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