B. Tech 6th Semester (Civil) F-Scheme Examination, E May-2017

May-2017

TRANSPORTATION ENGINEERING-II Paper-CE-310-F

Time allowed: 3 hours]

10-F

[Maximum marks: 1005]

Note: Attempt any five questions selecting first question as compulsory. 5+5+5 Stud

Write short notes on any four:

Group index method of pavement design

- 9 Mechanical soil stabilization
- 0 Longitudinal joints
- **a** WBM and WMM
- @ Design wheel load
- (a) Draw a sketch of flexible pavement cross section of and show the component parts. Enumerate the functions and importance of each component of
- 3 How is this method useful to determine the thickness of component layer?

the pavement.

24382-P-3-Q-9 (17)

3.5 m slab width having thickness of 20 cm and f=1.5, for plain cement concrete, allowable		S _c =0.8 kg/m ² .		
3.5 m slab width having thickness of 20 cm a	allowab	=1.5, for plain cement concrete,	P	
	20 cm a	3.5 m slab width having thickness of		

1 concrete pavement. Enumerate the steps in the construction of cement

Ē Discuss the advantages and application of of subgrade and embankments. various compacting equipment for construction

S in use? Discuss the advantages and limitations of What are the various types of bituminous construction

(a) Write a descriptive note on pavement evaluation. 10

9 What are the various causes of formation of Suggest remedial measures. waves and corrugation in flexible pavements?

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(a) Write short notes on any two:

10

(i) Resisting length

(ii) Hair pin bend

(iii) Prevention of land slide

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What are the special points considered in the alignment of hill roads? Discuss.

10 Considered in the considered in the

3

00 (a)

3

(a) State and describe the various methods adopted to in tunneling in rocky strata.

Write short notes on any two:

(i) Shaft

9

3

(ii) Pilot tunnel

(iii) Mucking

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