(a) theoretical nose of crossing. The heel divergence face of the outer main rail and pass through the toe of the switch (i.e.) tangential to the gauge a straight B.G. track with its curve starting from to set out a 1 in 8.5 turnout taking off from Calculate all the necessary element required (d) is 11.4 cm.

(9) and explain the function of various components Draw a typical cross section of a railway track of a railway track.

Describe in detail the following Lining of funnels

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(b) Shaft and purpose of shaft.

> TRANSPORTATION ENGINEERING-I B.Tech. 5th Semester (Civil F-Scheme) Examination, December-2017 Paper-CE-303-F

Time allowed: 3 hours! [Maximum marks: 100

Note: Q. No. 1 is compulsory. Students have to attempt each section. All questions carry equal marks. five questions in total at least one question from

(a) Explain obligatory points

3 Explain with neat sketch the "PIEV" theory?

<u>o</u> What do you understand by "Negative super elevation". Explain.

(3) Explain the classification of tunnels

(e) What do you understand by crossing and essential requirements of good crossing?

Section-A

2 a Determine the length of different categories of roads in a state in India by the year 2001, using the Total No. of towns as per 1981 census following data: Third Road Development formula and the Total area of State = 13400 sq km

Road Density 82 km/100 km²

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Types of sleepers.

acceleration, C=0.507

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