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B.Tech. CIVIL 5th Sem	May 2018
TRANSPORTATION ENGINEERING -1	Reoppear.
Subject Code: BTCE-504	May 2018 Reoppear. 2011-14 Bard
Time allowed: 3 Hrs Paper ID:	
강사이트 즐거움 그리고 있는 그 그리고 그게 되지 않아 보이를 하면 사람들이 되었다. 그리고 있는 사람들이 되었다. 그리고 있다면 나를 다 되었다.	Max Marks: 60
Important Instructions:	
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* Additional instructions, if any	
Q. 1. Short-Answer Questions: (a) What is role of transportation in the economic and social activities the various surveys to be carried out before planning a given area? (c) What are the various factors on which the overtaking sight distated (d) What are the obligatory point? (e) What are the desirable properties of bituminous mixes? (f) What are the various factors to be considered in pavement design (g) What are the various types of failures in cement concrete paven (h) How would you describe the term highway financing. (i) What are different vehicular characteristics which affect the roating of the properties of the suitability of road stores the objects of carrying out each of these tests and their at the control of the c	ince depends? on? ments? dd design?
the objects of carrying out each of these tests and their adv	nes? Discuss CO1 antages and
OR	
Explain CBR and the test procedure for laboratory and field tests. results of the test obtained and interpreted?	. How are the
9. 3. Draw a sketch of flexible pavement cross section and show the parts. Enumerate the functions and importance of each company	ne component CO2

pavement.

Explain the effect due to expansion and contraction of cement concrete slab and discuss the types of stress induced.

- Q.4. (a)Calculate the Safe Stopping Sight Distance for design speed of 80 km/hr CO3 for(Consider braking efficiency as 50%);
 - (i) Two-way traffic on a two lane road
 - (ii) Two-way traffic on a single lane road.
 - (b) Calculate the Safe Overtaking Sight Distance for a design speed of 96km/hr. Assume all other data suitably

OR

The radius of a Horizontal Curve is 150 m. The design speed is 60 km/hr and the design coefficient of lateral friction is 0.15 (a) Calculate the Super elevation required if full lateral friction is assumed to developed (b) calculate the coefficient of friction needed if no super elevation is provided (c) calculate the equilibrium super elevation if the pressure on inner and outer wheels should be equal

Q. 5. Write short not on:

CO4

- a) Thirteenth highest hourly traffic volume
- b) Level of service

OR

Explain how the speed and delay studies are carried out. What are the various uses of speed and delay studies?

. 6. What are the different types of overlays that may be considered for CO2 strengthening existing flexible pavements? Mention their relative adaytages.

OR

Discuss how the problem of road construction in water logged areas may be solved.