

No Preview
Available

Total No. of Question : [4]

Registration No. :

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Programme Name : Bachelor of Civil Engineering
Regular T.Y.B.Tech. ESE (A.Y. 2023-24) Sem.V Nov.2023
V SEMESTER (2021 BATCH)
201CEL303-Highway and Traffic Engineering(TH)

Duration : [11:00 AM - 01:00 PM]

Date : 24 Nov, 2023

Day : Friday

Marks : 50

Instructions :

(Q1) All questions are compulsory. [20.0]

(1.1) What are the controlling factors of alignment? [6.0]

CO :- CO1, CO2, CO3

Blooms Taxonomy :- Remember, Understand, Apply

(1.2) Draw a c/s of highway & describe function of each element. [7.0]

CO :- CO1, CO2, CO3

Blooms Taxonomy :- Remember, Understand, Apply

(1.3) Define Super elevation. Calculate for a highway situated on a curve of 300m radius & design speed of 80 kmph by considering $f = 0.12$ [7.0]

CO :- CO1, CO2, CO3

Blooms Taxonomy :- Remember, Understand, Apply

(Q2) All questions are compulsory. [10.0]

(2.1) What are the factors affecting on design & performance of flexible pavement? [4.0]

CO :- CO2, CO3

Blooms Taxonomy :- Remember, Understand, Apply

(2.2) Explain Marshall stability method [6.0]

CO :- CO2, CO3

Blooms Taxonomy :- Remember, Understand, Apply

OR [2.2 / 2.3]

(2.3) Explain CBR method on bitumen sample. [6.0]

CO :- CO2, CO3

Blooms Taxonomy :- Remember, Understand, Apply

(Q3) **All Questions are compulsory.** [10.0]

(3.1) Define the PQC term with neat diagram. [3.0]

CO :- CO3

Blooms Taxonomy :- Remember, Understand

OR [3.1 / 3.2]

(3.2) Describe in detail BBM with neat sketch. [3.0]

CO :- CO3

Blooms Taxonomy :- Remember, Understand

(3.3) Write a short note on Overlays construction. [7.0]

CO :- CO3

Blooms Taxonomy :- Remember, Understand

(Q4) **Attempt any two out of three questions.** [10.0]

(4.1) Enlist & explain vehicular characteristics of the traffic engineering. [5.0]

CO :- CO4

Blooms Taxonomy :- Remember, Understand

(4.2) Write a short note on, Traffic regulations & Control. [5.0]

CO :- CO4

Blooms Taxonomy :- Remember, Understand

(4.3) Write a short note on Intersection. [5.0]

CO :- CO4

Blooms Taxonomy :- Remember, Understand
