Reg. No. :			
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Question Paper Code: 1034396

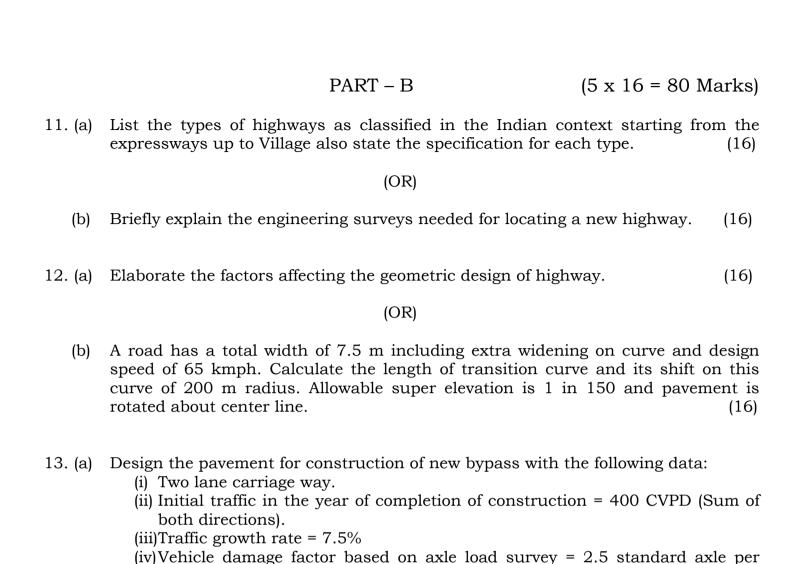
B.E. / B.Tech. DEGREE EXAMINATIONS, NOV / DEC 2024 Fourth Semester Civil Engineering U20CE404 - TRANSPORTATION ENGINEERING - I (Regulation 2020)

Time: Three Hours Maximum: 100 Marks

Answer ALL questions

 $PART - A \qquad (10 \times 2 = 20 \text{ Marks})$

- 1. How are roads classified as per Nagpur plan?
- 2. List the objectives of Highway planning?
- 3. Draw a typical transition curve and mark the salient features.
- 4. State the merits and demerits of parabolic camber.
- 5. What are the requirements of ideal pavement?
- 6. Define rigidity factor.
- 7. Define Flakiness index.
- 8. What is the significance of CBR test?
- 9. What do you mean by annual highway cost?
- 10. List the stages of bidding process.



(OR)

(OR)

(OR)

---- XXX ----

Discuss the following tests which involved in determining the quality of aggregate

With a neat sketch explain the evaluation of pavement by Benkelman beam

Elaborate about Highway financing methods and the responsibility of state and

(16)

(16)

(16)

(16)

(16)

(16)

commercial vehicle.

and bitumen with a diagram:
(i) Crushing strength test
(ii) Softening point test

method for deflection measurements.

central government in highway financing in India.

Explain the various Highway cost and its analyzing methods.

(b)

(b)

15. (a)

(b)

14. (a)

(v) Design CBR of Sub-grade soil = 4%

Explain the IRC design procedure for a rigid pavement.