

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA

Internal Assessment

4th Semester-- 2022(Summer), Civil Engg.

TH 4 : HIGHWAY ENGG.

Full Mark: 20

Time: 1 hour

1. Answer any FIVE (2×5=10)
  - a. Define stopping sight distance.
  - b. Mention any two purposes of providing camber.
  - c. Define right of way.
  - d. Mention any two functions of CRRI.
  - e. Mention any four types of tests for road aggregates.
  - f. State any four desirable properties of soil as highway subgrade.
  - g. Define superlevation.
  
2. Answer any TWO (5×2=10)
  - a. Explain CBR test of soil with neat sketch.
  - b. Describe the impact test of aggregate with neat sketch.
  - c. Describe any five functions of IRC.
  - d. Design the rate of superelevation from following data  
  
Design speed = 65 km/h, Radius of the curve = 300 m