



NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

B.Tech. – Cycle Test 1

Subject: CEIR11	Basics of Civil Engineering	Semester : 01
Date: 12.10.2023	Time: 1 hour	Maximum Marks: 20

1. Differentiate (12)
 - (a) Clamp Burning and Kiln burning
 - (b) Weigh batching and volume batching
 - (c) Bessemer method and electric arc method
 - (d) Attrition test and hardness test
 - (e) First class bricks and second-class bricks
 - (f) Low heat Portland cement and rapid hardening cement
2. Describe the test on fresh concrete with neat sketch (2)
3. Explain briefly the brick manufacturing process (2)
4. What are the different types of steel based on effect of alloying elements on steel and its application (2)
5. Explain various test conducted on physical properties of aggregates (2)