## CENTRAL INSTITUTE OF TECHNOLOGY KOKRAJHAR (Deemed to be University) KOKRAJHAR :: BTR :: ASSAM :: 783370

## END – SEMESTER EXAMINATION UG

Session: July-Dec. 2024 Semester: V Time: 3Hrs. Full Marks: 100 Course Code: UCSE503 Title: Formal Language & Automata Theory



10 + 8 + 2

5. (a) Is this grammar ambiguous? Give explanation. {  $S \rightarrow aS|aSbS|c$  } (a) Define the Turing machine. Design a Turing machine for the language L = {  $a^n b^n c^n$ : n > 0}

6 + 4 + 10

