UNIVERSITY OF CALCUTTA

FAKIR CHAND COLLEGE

B.SC. PART-II (HONS.) SUPPLEMENTARY EXAMINATION : 2020

CMSA

PAPER : III

F.M. : 50   TIME : 2 Hrs

1. **Answer any four questions :**   4 X 5 = 20
   a) What is complement of a Graph?
   b) What is isomorphic Graph?
   c) What is pigeon hole principle?
   d) What is Tautology?
   e) What is the convergent law of Newton Rapson Method?
   f) What is the law of Trapezoidal method?
   g) Define Finite Automata.
   h) What is regular expression?

2. **Answer any two questions :**   2 X 15 = 30
   a) Write down the algorithm of BFS procedure.
   b) Write down the Prim's algorithm.
   c) Write down the algorithm of Newton Rapson method.
   d) Distinguish between mealy machine and moore machine.