UNIVERSITY OF CALCUTTA

FAKIR CHAND COLLEGE

B.SC. PART-I (GEN) SUPPLEMENTARY EXAMINATION : 2020

CMSG- PAPER : I (Elective-I)

F.M. : 100   TIME : 3 Hrs

1. **Answer any four questions :**   4 X 5 = 20
   a) What is cache memory ?
   b) Distinguish between Rom and Ram.
   c) What is universal gate ?
   d) Draw a truth table of two input NAND gate.
   e) What is the function of PC?
   f) What is the differences between memory mapped i/o and i/o mapped i/o?
   g) Define Operating System.
   h) What is page fault?

2. **Answer any four questions :**   4 X 20 = 80
   a) Draw a block diagram of a computer system.
   b) Briefly describe Generation of computer.
   c) Draw truth table of AND, OR and NOT gate.
   d) State and prove De-Morgan's Law.
   e) Explain about addressing mode.
   f) Draw the flow chart of instruction cycle.
   g) Explain the Process Control Block in OS.
   h) State the types of OS and write their advantages.