RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE, RAHARA, KOLKATA MID SEMESTER EXAMINATION 2021 FIRST SEMESTER

B.Sc. COMPUTER SCIENCE HONOURS CORE COURSE II

Time: 1 hour Full Marks: 25 Answer any five (5) questions from the following: 1. (a) Draw the expanded structure of IAS Computer. (4+1)(b) What is the function of MQ? 2. Explain functionality of Control Bus in Bus Interconnection Scheme. (5)3. Write basic operation of Flags used in computer architecture. (5) 4/ (a) Write Commutative Law. (b) State and explain De Morgan's Theorems. (2+3)5. Evaluate the following arithmetic expression using 3-address and 2- address instructions: $Y=(A\times B)/[C+(D-E)]$ 6. Write an ALP to Add two numbers, then subtract Decimal 5 from the result. (5)7. How fetch and execute cycles are involved in data transfer? (5)8. (a) What is Machine Language? (b) What is High Level Language? (2+2+1)(c) What is the function of a Compiler?