Group A  $(1 \times 9 = 9)$ Multiple choice questions. How many characters are there in 1 MB. d) 8,192 1024 b) 1,028,576 a) 1,048,576 2. The transfer between CPU and Cache is...... b) Word transfer a) Block transfer all of the above d) c) Set transfer 3. The octal no(43.16) is equivalent to b) binary no (101011.001110) a) hexadecimal no (23.78) d) all of the above decimal no (433.176) 4. Four statements are given below. Identify the correct statement. b) XNOR is basic gate a) XOR is universal gate d) XOR is basic gate, c) XOR is derived gate, In Boolean Algebra, (A.A')+A =d) 1 b) A a) A' 6. Which is valid C expression? b) int  $my_num = 100000;$ a) int  $my_num = 100,000$ ; d) int  $my_num = 10000$ ; c) int my num = 1000;What is the output of the following c codes? #include <stdio.h> int main() int d, a = 1, b = 2; //initialization d = a+++++b;printf("%d %d %d", d, a, b); d) compile time error a) 1,2,3 dab

QUADE VI (2CIFICE)

SET A

F.M.:50

P.M : 20

Subject: Computer Science

Time: 2:00 hrs.

How many times i value is checked in the following C program? #include <stdio.h> int main() int i = 0; while (i < 3)i++; printf("In while loop\n"); **d**) 1 c) 4 b) 3 a) 2 which of the following is not a singular tag. d) none of the above c) both a and b b) <img> a) Group B  $(5 \times 5 = 25)$ Short answer questions. What do you mean by microprocessor? Define the term SRAM, EEPROM (1+4)Why hard disk is popular than floppy disk. Subtract 10110 from 11001 by (1+4)using 2's complement method. What do you mean by palindrome no. Write a program in C to check (1+4)3. weather a no is palindrome or not. What do you mean by HTML, mention the objectives of HTML? Write an HTML code to get the following output. Country **Contact** Company **USA** Redmond Microsoft **USA** California GOOGLE **USA** Texas What do you mean by CPU? Mention the sub systems of CPU in details. 5. Group C  $(8 \times 2 = 16)$ Long answer questions. 1. a) WAP in C to input a matrix of order m\*n, and display the inputted matrix

- 1. a) WAP in C to input a matrix of order man, and display the inputed matrix in proper order then calculate and display the sum of every elements of the matrix.
  - b) What do you mean by while loop, mention the syntax and flowchart of while loop. (3)
- 2. Define X-NOR gate with their Boolean expression, logical diagram, truth table and venn diagram. Implement all basic gates by using NOR gate only. Also define the truth table and Boolean expression. (6+2)