RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE, RAHARA KOLKATA

MID SEM EXAMINATION 2021 B.Sc. 1st SEM COMPUTER SCHENCE (Hons.) Programming Fundamentals using C/C++ (CCI)

Total Marks: 25 Duration: 1 hour

N. B.i

- Draw diagrams whenever necessary.
- Numbers to right indicate marks.

Answer any five (5) questions from the following:

5x5-25

- What is identifier? Explain with example. Specify the size of different types of data
 types in C. Write 4 keywords of C language.

 2+2+1=5
- 2. What is the difference between algorithm & flowchart? Write an algorithm and flow chart to solve the following problem- You will be given 3 integers as input. The inputs may or may not be different from each other. You have to output 1 if all three inputs are different from each other and 0 if any input is repeated more than once.

 2+3=5
- 3. What will be the value of P for these following statements: P=if(-1), P=if(0), P=if(1), P=if(18)? Is it possible to use nested switch case in C language? How many types of conditional statements are there in C, specify them.

 2+1+2=5
- 4. Write a C program using nested if to calculate the minimum among five numbers. Explain the working principles of switch case.

 3+2=5
- 5. What do you mean by infinite loop? Write a small piece of code to show one infinite loop. State the difference between for loop and do-while loop. 1+2+2=5
- 6. Write a C program to print the following pattern:

5

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- 7. Write a program using switch case to display a menu that offers five options: read three numbers, calculate total, calculate average, display the smallest and display the largest value
- 8. What will be the output of the program? #include<stdio.h> int main()

State the difference between logical and bitwise operator

3+2=5