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GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE & ECONOMICS.PONDA-GOA B.C.A CBCS (SEMESTER-I) EXAMINATION, NOVEMBER 2022 PROBLEM SOLVING AND PROGRAMMING CONCEPTS

Duration: 2 Hrs Marks: 60

Instructions: 1.All Questions are compulsory 2.Figures to the right indicate marks	
 Q.1.A.state whether the following statements are true or false a. Declarations can appear anywhere in the program. b. All arithmetic operators have same level of precedence. c. An exit controlled loop is executed at least once. d. Structures may contain members of only one data type. e. Every program statement in C must end with a semicolon. 	(5*1=5)
Q.1.B.Find errors if any,in the following C statements. i. a=b++ - c*2; ii. if(x>=10) then printf("\n");	(2 *1=2)
Q.1.C. Determine the output of the following code segment. i. main() { int m;	(2*1.5=3)
for(m=1;m<5;m++) printf("%d",(m%2)==0 ? m: m*2); }	
<pre>ii. int marks[5]={1,2,3,4,5}; printf("%d",marks[4]);</pre>	
Q.2.a.What is a computer Program? Q.2.b.Write an algorithm and draw a flowchart to swap two numbers Q.2.c.Write a C program to find largest element from an array.	(2 s. (3 (5
O.3.a. What are symbolic constants.	(2

(3)

(5)

(2)

(3)

(5)

Q.3.b. differentiate between a compiler and an interpreter.

Q.4.b.Explain in brief the steps of program development life cycle.

Q.4.C. write a C program to read and display student data using structures.

Q.3.c. Write a C program to compare two strings.

Q.4.a. State the rules for naming C variable.

Q.5.a.Distinguish between putchar() and printf() functions.	(2
Q.5.b.State and explain any 3 inbuilt library functions.	(3
Q.5.c.Explain the process of Executing a C program.	(5
Q.6.a. what is a pointer variable?	(2)
Q.6.b. Do-while is called an exit controlled loop. Explain.	(3)
Q.6.c.Write a C program to find sum of 2 numbers using functions.	(5)
ALL THE BEST	