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GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE & ECONOMICS.
PONDA-GOA
B.C.A (SEMESTER-I) EXAMINATION, OCTOBER 2018
PROBLEM SOLVING AND PROGRAMMING CONCEPTS

Duration: 2 Hrs

Marks: 50

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 (5*1=5)

- a. The function call strcpy(s2,s1); copies string s2 into s1.
- b.A char type variable cannot be used as a subscript in an array.
- c.C language is a case sensitive language.
- d.main() is where the program begins its execution.
- e.pointer variables are declared using the address operator.

Q.1.B.Predict the output of the following code. (2.5 *2=5)

a. void main()
 {
int x=100;
printf(“%d”,10 + x++);
printf(“%d”,10 + ++x);
 }

b. void main()
 {
char s1[50]= “kolkatta”;
printf(“%d”,strlen(s1));
 }

Q.2. Answer the following.

- a.What is an algorithm. (2)
- b.Explain the basic structure of a C program. (3)
- c.Write a C program to find area of a circle and a triangle.(5)

Q.3.a. Define slack byte. (2)

Q.3.b. Explain different approaches for printing strings in C. (3)

Q.3.c. Write a C program to find factorial of a number. (5)

Q.4.a.What is a C pre-processor? (2)

Q.4.b.List and explain looping statements in C . (3)

Q.4.C. Write a C program to find sum of elements in an array using pointers. (5)

Q.5.a.Define a C function. (2)

Q.5.b.What are the rules for naming a C variable. (3)

Q.5.c.write a C program to read and display student data using structure. (5)

-----ALL THE BEST-----