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GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE & ECONOMICS.
PONDA-GOA
B.C.A (SEMESTER-I) SUPPLEMENTARY EXAMINTION, MAY/JUNE 2019
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. Declaration can appear anywhere in a program.
         b. Parentheses can be used to change the order of evaluation of expressions.
         c. The **scanf()** function can be used to read only one value at a time.
         d. A function can have more than one return statement.
         e. Structures may contain members of only one data type.

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

```
a.void main()
        {
            char s[]= "HELLO WORLD";
int m;
      for(m=0; string[m]!= '\0';m++)
            if((m%2==0)
printf("%c",string[m]);
        }
b.  void main()
        {
            int m=100,n=0;
    m=m-10;
printf("%d",m);
```

```
printf("%d %d",++m, n++);
        }
```

Q.2.a.State fundamental data types in C. (2)

b.Writean algorithm to find largest of 2 numbers. (3)

c.Write a C program to swap 2 numbers. (5)

Q.3.a. Differentiate between break and continue statement. (2)

Q.3.b. Explain the use of GOTO statement.(3)

Q.3.c. Write a C program to generate multiplication table of first 10 numbers. (5)

Q.4.a.What is a C preprocessor? (2)

Q.4.b.List and state uses of any 3 string library functions. (3)

Q.4.C.Write a C program to generate Fibonacci series. (5)

Q.5.a.What is Recursion? (2)

Q.5.b.With an example,illustrate the use of **switch** statement. (3)

Q.5.c.Write a C program to find sum of values in an array. (5)

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