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PONDA-GOA
B.C.A CBCS (SEMESTER-I) EXAMINATION,
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PROBLEM SOLVING AND PROGRAMMING CONCEPTS

Duration: 2 Hrs

Marks: 30

Instructions: Figures to the right indicate marks

Q.1. Answer any 5 questions of the following.

(5*2=10)

i. Predict the output of the following code.

```
int main()
{
    int x, y = 5, z = 5;
    x = y==z;
    printf("%d", x);
    return 0;
}
```

ii. Predict the output of the following code.

```
void main()
{
    int m[]={1,2,3,4,5},x,y=1;
    for(x=0;x<5;x++)
    {
        y=y*m[x];
    }
    printf("%d",y);
}
```

iii. Define a pointer.

iv. write the basic structure of a C program.

v. What are the steps for executing a C program?

vi. Write an algorithm to find sum of series $1+3+5+\dots+N$, where N is positive odd integer.

vii. What is a C preprocessor?

viii. What is a symbolic constant?

Q.2. Answer any 4 questions of the following.

(4*5=20)

i. Write a c program to swap values of 2 variables using pointers.

ii. Write a short note on system software.

iii. write a C program to generate Fibonacci series.

iv. Explain Logical operators in C.

v. With an example, illustrate the use of **switch** statement.

vi. write a c program to compare two strings.

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