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GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS
PONDA-GOA**

**B.C.A. (SEMESTER-I) EXAMINATION, OCTOBER 2015
PROBLEM SOLVING AND PROGRAMMING CONCEPTS**

Duration: 2 Hours

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)

- i. main() is where the program begin its execution.
- ii. Syntax errors will be detected by the compiler.
- iii. Declarations can appear anywhere in the program.
- iv. One if can have more one else clause.
- v. Each case label in switch statement can have only one statement.

Q.1.B.Find errors, if any, in the following code. (2*1=2)

- i.

```
void abc(int a, int b)
{
int c;
.....
return (c);
}
```
- ii.

```
int count=0;
while (count !=10);
{
count++;
}
```

Q.1.C. Predict Output of the following Code. (2*1.5=3)

- i.

```
main()
{
int x=100;
printf("%d\n",10 + x++);
printf("%d\n", 10 + ++x);
}
```
- ii.

```
main()
{
int x=10;
if(x==20) printf("TRUE");
else printf("FALSE");
```

}

contd...2/-

... 2 ...

- Q.2.A. Define Symbolic constant. (2)
- Q.2.B. With the help of an example, explain increment and decrement operators. (3)
- Q.2.C. Write a program to find sum of two numbers. (5)
- Q.3.A. What is a variable? (2)
- Q.3.B. With an example, illustrate the use of Switch statement. (3)
- Q.3.C. Write a program to compare two strings. (5)
- Q.4.A. Do-while is called as an exit controlled loop. Explain. (2)
- Q.4.B. Explain the use of break statement. (3)
- Q.4.C. Write a program to find entered number is even or odd using function. (5)
- Q.5.A. What is a C pre-processor? (2)
- Q.5.B. Differentiate between gets() and getchar(). (3)
- Q.5.C. Write a program to swap 2 values using pointers. (5)

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