

Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE & ECONOMICS
PONDA-GOA

B.C.A (SEMESTER-I) EXAMINATION, OCTOBER 2016
PROBLEM SOLVING & 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. There is no need to return any value to the function `int main()`.
 - ii. Declarations can appear anywhere in the program.
 - iii. Placing a semicolon at the end of each statement is a abnormal termination.
 - iv. Syntax errors will be detected by the compiler.
 - v. An exit controlled loop is executed at least once.
- Q.1.B. Find errors if any in the following C Statements. (2*1=2)
- i. `char name[25];`
 - ii. `printf(" yes");`
- Q.1.C. Determine the Output of the Following Code. (2*1.5=3)
- i.

```
void main()
{
    inti;
    for(i=1;i<5;i++)
    printf("%d",i%2)==0 ?i: i*i);
}
```
 - ii.

```
char s1[] = "green";
char s2[]="Goa";
strcpy(s1,s2);
printf("%s",S1);
```
- Q.2.A. Define an algorithm. (2)
- Q.2.B. State the uses of `getchar` and `putchar()`. (3)
- Q.2.C. Write a program to find the largest element in an array. (5)
- Q.3.A. Define a structure. (2)
- Q.3.B. What is the use of pointers in C? (3)
- Q.3.C. Write a program to check entered number is palindrome or not. (5)
- Q.4.A. Define an array (2)
- Q.4.B. What is a Pre processor in C? (3)
- Q.4.C Write a C program to reverse the string using string functions. (5)
- Q.5.A. What is a variable? (2)
- Q.5.B. Differentiate between write and append mode of file operation in C. (3)
- Q.5.C. State any functions in file. (5)