

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

B.C.A. (SEMESTER-I) SUPPLEMENTARY EXAMINATION, MAY/JUNE 2016
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. Only one function may be named main().
- ii. The scanf function can be used to read only one value at a time.
- iii. All arithmetic operators have the same level of precedence.
- iv. A char type variable cannot be used as a subscript in an array.
- v. The gets function automatically appends the null character at the end of the string read from the keyboard.

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

- i. float values[10,15];
- ii. char s1[5], s2[10];
 gets(s1,s2);

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

- i. main()
 {
 int x=100,y=200;
 printf("%d", (x>y)?x:y);
 }
- ii. main()
 {
 char string[]="hello world";
 int m;
 for(m=0;string[m]!='\0';m++)
 if((m%2)==0)
 printf("%c", string[m]);
 }

Q.2.A. Who designed C language? (2)

Q.2.B. State and explain primary data type. (3)

Q.2.C. Write a program to swap contents of two variables. (5)

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- Q.3.A. State the advantages of functions. (2)
- Q.3.B. With an example, explain the use of go-to statement. (3)
- Q.3.C. Write a program to find minimum element from a 2*2 matrix. (5)
- Q.4.A. What are the rules for naming a C variable? (2)
- Q.4.B. What is a pointer? State the benefits of pointers. (3)
- Q.4.C. Write a program to check entered number is an Armstrong number. (5)
- Q.5.A. State the use of continue statement. (2)
- Q.5.B. Differentiate between putchar() and puts(). (3)
- Q.5.C. Write a program illustrating the use of structures. (5)

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