

Vidya Vikas Mandal's
SHREE DAMODAR COLLEGE OF COMMERCE & ECONOMICS
Margao, Goa

F.Y.B.C.A., SEM I MAY/JUNE SUPPLEMENTARY EXAMINATION 2018
PROBLEM SOLVING & PROGRAMMING CONCEPTS (BCA-101)

Duration: 2 hours

Total Marks: 50

- Instruction : 1) All Questions are Compulsory
 2) Figures to right indicate marks

Q1 A) Explain the following

(1mk x 5=5mks)

- i) Array
- ii) Recursive Function
- iii) Pointer Variable
- iv) Compiler
- iv) Top Down Design

Q1B) State true or false. Justify your answers.

(1mk x 5=5mks)

- i) Unary Operator & gives value stored in the variable.
- ii) Address of the float data is always a whole number.
- iii) Maximum number of elements in the array declaration `int a[3][2]` is 6.
- iv) ++i is postfix operator.
- v) C is object oriented Programming Language.

Q2) Answer the following.

(10mks)

- A) Explain the use of operators = and == through examples. (2 mks)
- B) Explain the Different Types of ERRORS in programming. (3 mks)
- C) What is Flowchart? Draw flowchart to generate Fibonacci Series. (5 mks)

Q3) Answer the following.

(10mks)

- A) Why documentation is important in software development? (2 mks)
- B) What is a Variable name? What are the rules for constructing a Variable Name ? (3mks)
- C) Explain the different data types supported by C language. (5 mks)

Q4) Answer the following

(10mks)

A) Given String s1="Raj";
String s2="Malhotra";

(2 mks)

Give the output of the following

strlen(s1).

strcat(s1,s2).

strcmp(s2s1)

strrev(s1)

B) Write short note on first generation languages.

(3 mks)

C) Explain the use of following in programming.

(5 mks)

i) Function

ii) & operator

iii) break Statement

iv) storage class

v) conditional statements

Q5) Answer the following

(10 mks)

A) What is the difference between a loop with the test condition at the top and a loop with test at the bottom .

(2 mks)

B) What is a Structure ? Define Structure that contains data

(3 mks)

i) Rollno

ii) Name

iii) percentage.

Define a variable ,read data & store in variables and display the details on the output screen.

C) Write a Flowchart to reverse a Number given by user.

(5 mks)

-----Best of luck-----