



**DE-3702**

**First Year B. C. A. (Sem. I) Examination**

**March/April – 2016**

**104 : Computer Programming & Programming Methodology**

Time : 3 Hours]

[Total Marks : 70

**Instructions : (1)**

नीचे दशांशक निशा-नीवाणी विगतो उत्तरवली पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination:	<input type="text"/>
First Year B. C. A. (Sem. I)	<input type="text"/>
Name of the Subject:	<input type="text"/>
104 : Computer Programming & Programming Methodology	<input type="text"/>
Subject Code No.:	<input type="text"/>
3 7 0 2	<input type="text"/>
Section No. (1, 2,.....):	<input type="text"/>
NIL	<input type="text"/>
	Student's Signature

- (2) All questions are compulsory.  
(3) Figure to the right indicate full marks.  
(4) Mention your options clearly.
- 1 Answer in short : (any ten) 10
- (1) Give the advantage of flowchart.
  - (2) What is difference between compiler and interpreter ?
  - (3) What is keyword ?
  - (4) Explain : Operator.
  - (5) What is type casting ?
  - (6) Explain infinite loop.
  - (7) Explain continue statement.
  - (8) How to create write comment in C ?
  - (9) What is nested loop ?
  - (10) What is use of NULL in string ?
  - (11) Explain putchar( ) in detail.
  - (12) What is error ?
  - (13) Explain #include.
- 2 Explain following questions in detail : (any three) 18
- (a) Explain types of error in detail.
  - (b) Write a short note on data types.
  - (c) Write a short note on debugging.
  - (d) List all categories of operator in C. Explain assignment and relational operator in detail.
  - (e) Explain Jumping statement in detail.

- 3 Answer the following questions : (any three) 18
- (a) Write a short note on scanf ( ) and printf ( ) function.
  - (b) Differentiate entry control loop and exit control loop. Explain for loop in detail.
  - (c) Explain switch case.
  - (d) Explain any five string functions in detail with examples.
  - (e) Write a short note on arrays.
- 4 Attempt the following questions : (any three) 18
- (a) Explain If conditional statement in detail.
  - (b) Differentiate
    - (1) = and = =
    - (2) Pre decrement and post decrement.
  - (c) Write a short note on basic structure of C program.
  - (d) Explain string array in detail.
  - (e) What is constant ? How to create constant in C ?  
What is difference between constant and variable ?
- 5 Attempt any one : 6
- (1) Write an algorithm and draw flowchart to check given number is Armstrong or not.
  - (2) Write an algorithm and draw flowchart of Fibonacci series.
- OR
- 5 Attempt any one : 6
- (1) Write a program to accept string and one character. Count the occurrence in character in a given string.
  - (2) Write a program to reverse a number.
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