



**MJ-3702**

**First Year B. C. A. (Sem. I) Examination**  
**October / November – 2015**  
**104 - Computer Programming &**  
**Programming Methodology**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशांशिक निशानीवाणी विगतो उताखवडी पर अवश्य कपनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> FIRST YEAR B. C. A. (SEM. 1)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> 104 - COMPUTER PROG. & PROG. METHODOLOGY	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 7 <input type="text"/> 0 <input type="text"/> 2	Section No. (1, 2,....): <input type="text"/> NIL
	Student's Signature

- (2) All questions are compulsory.  
(3) Figures to the right indicate full marks.  
(4) Mention your options clearly.

1 Answer in short : (any ten)

10

- (1) Why algorithm is required?
- (2) What is complier?
- (3) What is variable? Give the rules to create variable name.
- (4) Explain ? : operator?
- (5) What is type casting?
- (6) What is difference between #define and const keyword?
- (7) Give the symbols of drawing flowchart.
- (8) How to create write comment in C?
- (9) What is nested loop?
- (10) What is multi dimensional array?
- (11) Explain getchar( ) in detail.
- (12) What is error?
- (13) Explain void main( ).

- 2 Explain Following Questions in Detail : (any three) 18**
- (a) Write a note on precedence of operator.
  - (b) Explain different data type available in C.
  - (c) Explain types of error in detail.
  - (d) List all categories of operator in C. Explain Logical and relational operator in detail.
  - (e) Explain GOTO in detail.
- 3 Answer the following questions : (any three) 18**
- (a) Write a short note on scanf( ) function.
  - (b) Differentiate entry control loop and exit control loop. Explain Do...while in detail.
  - (c) Explain conditional statement.
  - (d) Explain any five conversion functions in detail with example.
  - (e) Write a short note on two dimensional arrays.
- 4 Attempt the following questions : (any three) 18**
- (a) Write a short note on debugging.
  - (b) Differentiate
    - (1) = and ==
    - (2) Pre increment and post increment
  - (c) Write a short note on basic structure of C program.
  - (d) Explain string array in detail.
  - (e) Explain strcat( ), strcmp( ), and strcpy( ) with example.
- 5 Attempt any one : 6**
- (1) Write an algorithm and draw flowchart to check given number is prime or not.
  - (2) Write an algorithm and draw flowchart to find the factorial of the given number
- OR**
- 5 Attempt any one : 6**
- (1) Write a program to accept string and then count number of characters and number of words from that.
  - (2) Write a Programme to check whether Number is Palindrome or Not.