



DE-5702
M. C. A. (Sem. I) Examination
March / April - 2016
103 : Computer Programming &
Programming Methodology
(Old & New Course)

Time : 3 Hours]

[Total Marks : 70

Instruction :

<p>नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : M. C. A. (Sem. I)</p> <p>Name of the Subject : 103 : Computer Program. & Program. Methodo. (Old & New)</p> <p>Subject Code No. : 5 7 0 2 Section No. (1, 2,...): Nil</p>	<p>Seat No. : [][][][][][][]</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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- .1. Do as directed: 14
- (A) Answer The Following. (Any Five) [05]
- (1) What are the valid places for the keyword break to appear.
 - (2) What is a preprocessor?
 - (3) What is the difference between variable declaration and variable definition?
 - (4) What is an escape sequence? What is its purpose?
 - (5) What is keyword? Give any 3 keywords.
 - (6) Explain conditional operator.
- (B) Explain following with example. (Any Three) [09]
- (1) Write difference between structure and Union
 - (2) Write difference between auto and register class.
 - (3) Write difference between scanf() and gets().
 - (4) Write difference between local variable and global variable.

2. Do as directed:

14]
[06]

(A) Rewrite the following code, removing errors, if any, and then show the output.

```
(1) #include<stdio.h>
void increment()
{
    static int s=0;
    auto int a=0;
    a++;
    s++;
    printf("s=%d\n",s);
    printf("a=%d\n",a);
}
void main()
{
    increment();
    increment();
    increment();
}
```

```
(2) #include<stdio.h>
void main()
{
    int i, j, k, a;
    i = 2;
    j = 5;
    k = (++i) && (j--);
    a = k + (i++) - (++j);
    printf("%d %d", k, a);
}
```

```
(3) #include<stdio.h>
int main(){
    int i=2,j=2;
    while(i+1?--i:j++)
        printf("%d",i);
    return 0;
}
```

(B) Write Following C Program.(Any Two)

[08]

- (1) Write a c program to print Pascal triangle.
- (2) Write a c program to find out sum of digit of given number.
- (3) Write a C program to display 0 1 3 6 10 15 21.....n series.

3. Do as directed: 14
- (A) Answer the following.(Any **Three**) [09]
- (1) Explain call by value and call by reference with example.
 - (2) Explain static storage class with example.
 - (3) What is an operator? Describe several types of operators and their precedence levels in 'C'.
 - (4) What is recursion? Explain giving example of the recursive function.
- (B) Write Following C Program [05]
- Write a program to count number of capital letters from a file.
4. Do as directed: 14
- (A) Answer the Following.(Any **Two**) [05]
- (1) When should we use pointers in a C program?
 - (2) How will you print numbers from 1 to 100 without using loop?
 - (3) Comment on the following pointer declaration? `int *ptr, p;`
- (B) Answer the Following Questions. (Any **Two**) [09]
- (1) Explain stream. Explain fopen() and fclose() functions with example.
 - (2) Explain pointer to function with example.
 - (3) Explain Union with Example.
5. Do as directed: 14
- (A) Write Short Note on following. (Any **Two**) [08]
- (1) typedef
 - (2) while loop
 - (3) command line programming in C
- (B) Explain Following with example. (Any **Three**) [06]
- (1) Strcmp
 - (2) Getchar
 - (3) Enum
 - (4) #define
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