

## **DE-5702**

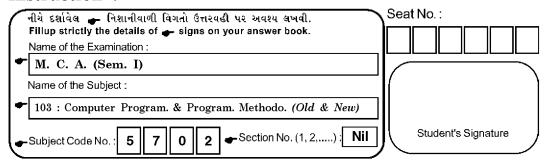
## M. C. A. (Sem. I) Examination March / April - 2016

## 103 : Computer Programming & Programming Methodology

(Old & New Course)

Time: 3 Hours] [Total Marks: 70

## **Instruction:**



.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.

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2. Do as directed:
                                                                                 14]
  (A) Rewrite the following code, removing errors, if
                                                                                [06]
        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;
          i = 5;
          k = (++i) \&\& (j--);
          a = k + (j++) - (++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;
     }
     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:  (A) Answer the following.(Any Three)		14 [09]
		(1) Explain call by value and call by reference with example.	
		<ul> <li>(2) Explain static storage class with example.</li> <li>(3) What is an operator? Describe several types of operators and their precedence levels in 'C'.</li> <li>(4) What is recursion? Explain giving example of the recursive function.</li> </ul>	n.
	(B)	Write Following C Program	[05]
	()	Write a program to count number of capital letters from a file.	•
4.	Do a	as directed:	14
	(A)	Answer the Following.(Any <b>Two</b> )  (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,	
	(B)	Answer the Following Questions. (Any Two)	[09]
		<ol> <li>(1) Explain stream. Explain fopen() and fclose() functions with example.</li> <li>(2) Explain pointer to function with example.</li> <li>(3) Explain Union with Example.</li> </ol>	ole.
5.	_Do as directed:		14
	(A)	Write Short Note on following. (Any <b>Two</b> ) (1) typedef (2) while loop (3) command line programming in C	[08]
	<b>(B)</b>	Explain Following with example. (Any <b>Three</b> ) (1) Strcmp (2) Getchar (3) Enum (4) #define	[06]