



**BCD-003-007101**

Seat No. \_\_\_\_\_

**M. C. A. (Sem. I) (CBCS) Examination**

**January – 2016**

**CCA-1001 : Introduction to Programming Using C**

**Faculty Code : 003**

**Subject Code : 007101**

Time : 3 Hours]

[Total Marks : 70

1 Answer the following Multiple Choice Questions: 15

(1) main( )

```
{  
    char s1, s2;  
    printf("%d %d",sizeof(s1),sizeof(s2));  
}
```

(a) 5 2 (b) 1 1

(c) 2 2 (d) 9 2

(2) Will the following functions work?

```
f1 (int a,int b)
```

```
{  
    return (f2(20));  
}
```

```
f2 (int a)
```

```
{  
    return (a*a);  
}
```

(a) No

(b) Yes

(c) Could not call another function in return ( )

(d) None of the above



- (6) What will be output of following C code ?
- ```
#include<stdio.h>
int main(){
    for(;;){
        printf("%d", 10)
    }
    return 0;
}
```
- (a) 10 (b) Error  
(c) Infinite loop of 10 (d) None
- (7) C was developed by \_\_\_\_\_.  
(a) Patrick Naughton (b) Dennis Ritchie  
(c) Ken Thompson (d) Martin Richards
- (8) The extension for C program files by default is \_\_\_\_\_.  
(a) .c (b) .d  
(c) .obj (d) .exe
- (9) A short integer variable occupies memory \_\_\_\_\_.  
(a) 2 bytes (b) 4 bytes  
(c) 1 byte (d) 8 bytes
- (10) The range of character data type is \_\_\_\_\_.  
(a) -128 to 127 (b) 0 to 255  
(c) 0 to 32767 (d) 126 to 275
- (11) Which of the following statement is valid?  
(a) 5+5=a; (b) ss=12.25;  
(c) st=m \* b; (d) is = A+ 10;
- (12) Which function is appropriate for accepting a string?  
(a) gets() (b) getch()  
(c) getche() (d) scanf()
- (13) A character array always ends with \_\_\_\_\_.  
(a) null (\0) character  
(b) question mark (?)  
(c) full stop(.)  
(d) exclamation mark(!)
- (14) The structure combines variables of \_\_\_\_\_.  
(a) similar data types.  
(b) dissimilar data types.  
(c) unsigned data types.  
(d) signed data types.
- (15) Given int\*p1,\*\*p2,\*\*\*p3,v=25; How to obtain the value of v using pointer variable?  
(a) \*p1 (b) \*\*p2  
(c) \*\*\*p3 (d) all the above

- 2** Attempt any five of the Following: **15**
- (1) What does static variable mean?
  - (2) What is a structure?
  - (3) What is an array of pointers?
  - (4) Is it possible to have negative index in an array?
  - (5) What are built in functions?
  - (6) What is pre increment and post increment?
- 3** Attempt any three of the following: **15**
- (1) Write a program that converts Centigrade to Fahrenheit.  
 $F = (9/5)C + 32$
  - (2) Write a program that converts numbers to words. For example, 895 results in "eight nine five."
  - (3) Write a function begins(string1,string2) that returns true if string1 begins string2. Write a program to test the function.
  - (4) Write a program to sum the elements in an array.
- 4** Attempt any two of the following: **15**
- (1) What is the similarity and differences between a Structure and Union?
  - (2) What is pointer? Explain pointer to point with suitable example.
  - (3) Explain string compare and concatenate functions.
- 5** Attempt any one of the following : **10**
- (1) Can you use the function fprintf() to display the output on the screen from reading data from file ? Write program.
  - (2) How can we read/write structures from/to data files ?
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