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M.C.A. (Commerce Faculty) (First Semester)

EXAMINATION, 2016

102 : PROGRAMMING IN 'C'

(2013 PATTERN)

Time : Three Hours

Maximum Marks : 50

N.B. :— (i) All questions are compulsory.

(ii) Assume suitable data, if necessary.

1. Attempt any seven : [7×2=14]

(a) Define :

(i) precedence

(ii) associativity.

(b) What is formatted output ? Give proper example.

(c) List names of jump structures.

(d) What is difference between call by value and call by reference ?

(e) What is 2-D array ? How is it handled in 'C' ?

(f) What is the difference between structure and union ?

(g) What is use of #if and #else directives ?

(h) What is use of getch() and putc() functions in 'C' ?

P.T.O.

2. Attempt any *three* : [3×4=12]

- (a) Explain the basic structure of 'C' program.
- (b) Explain 'for' and 'nested for' loop with proper example.
- (c) Write a note on 'storage class' in 'C'.
- (d) What will be the output of the program ?

```
#include<stdio.h>
int reverse(int);
int main( )
{
    int no=5;
    reverse(no);
    return0;
}
int reverse(int no)
{
    if(no == 0)
        return 0;
    else
        printf("%d,"no);
        reverse(no--);
}
```

3. Attempt any *three* : [3×4=12]

- (a) Write a 'C' program to display all odd and even numbers between 1 to 100 by using function.

- (b) Write a 'C' program for addition of two 3×3 matrices.
- (c) Accept characters from the keyboard till user enters EOF and store them in a file. Display the contents of the file on screen.
- (d) What will be the output of the program ?

```
#include<stdio.h>

int main()
{
    FILE*ptr;
    char i;
    ptr = fopen("myfile.c", "r");
    while((i=fgetc(ptr))!=NULL)
        printf("%c",i);
    return 0;
}
```

4. Attempt any *three* : [3×4=12]

- (a) What is string ? Explain strlen() and strcmp() with suitable example.
- (b) What is the difference between 'structure' and 'union' ?
- (c) Write a note on 'Command Line Argument'.

(d) What will be the output of the program ?

```
#include<stdio.h>

int main()
{
    int x=10, y=20;
    if(!(!x) && x)
        printf("x=%d\n", x);
    else
        printf("y=%d\n", y);
    return 0;
}
```