

ii) Write a function to return factorial of a passing number. (6)

(OR)

b) i) What is the purpose of pre processor directives ?

Give the usage and example for the "#define", "#include" and "#ifdef" directives (8)

iii) Write a C Program to find the minimum and maximum values of a given array, with their locations. (8)

15. a) i) Write short note on pointer variables with example. (8)

ii) Write C program to display lower triangle patterns for the given size, as follows, using function. (E.g : if the given size is 6)

```
*****
*****
****
***
**
*
*****
*****
****
***
**
*
```

(8)

(OR)

b) i) Define Linked List and give example (6)

ii) Write a menu based C program to perform the following operations:

1. addition,
2. multiplication,
3. logical AND
4. logical OR

Display "Invalid Option" for the choice other than 1 to 4. (10)
