

Section - A

1X10 = 10

- 1) What is variables in 'c' language?
- 2) What are different types of Relational operators present in c.
- 3) What is use of break statement?
- 4) What is recursive function?
- 5) What is Array?
- 6) What is use of Typedef statement?
- 7) What is pointer?
- 8) Give an example of pointer arithmetic.
- 9) define eof function ~~with~~ in file handling system.
- 10) explain #define directives in C language.

Section - B

3X5 = 15

- 1) explain 'c' language basic structure of  
OR  
Explain getch(), getchc() & getc() functions?
- 2) Explain if...else statement with an suitable example.  
OR  
Give difference between call by value & call by reference.
- 3) What is structure? how to declare & access a structure variable?  
OR  
What is difference between actual & formal parameter?
- 4) Explain - dynamic memory allocation techniques.  
OR  
Explain pointers to array methods in 'c'.
- 5) Explain preprocessor directives.  
OR  
explain conditional directives in 'c'.

## Section-c

5x5=25

Write a program for checking student grade using logical operators (more than 80 = A+, between 70-80 = A, between 60-70 = B, between 50-60 = C, below 50 = fail)  
OR

Write a program using gets() & puts() and compare given strings are equal or not.

define loop statement in c language also explain its types  
OR

Write a program for printing factorial number for a number which is entered in runtime using recursive function.

Describe enum statement with an example.  
OR

Write any 5 difference between structure and union.

What is pointer? Write a program of pointers using math expression.  
OR

Write a program to print sum of 2 numbers using pointer to function method.

Explain array with its types in detail.

OR

Explain array of structure and ~~structure~~ <sup>write a C</sup> program to print numbers from 3 to 9 & their squares using structure.