

# Computer Science

Paper 1: Fundamental of Computers and Programming with 'C'

Time: 3 hours

Max. Marks: 80

## SECTION-A

Answer ALL questions

4 x 15 = 60

1. a) Draw the block diagram of a Computer and explain all its parts in detail.

b) Explain the functions of an operating system.

or

c) Discuss in detail about RAM, ROM and Cache memories.

d) What are the different types of input devices? Explain.

2. a) Write short notes on data communications and networks.

b) Explain different types of Network Topologies.

or

c) Explain the need of communication networks.

d) What is Internet? How to create a Internet Account?

3. a) What are the control statements of C language? Explain.

b) Write a program to find the roots of a quadratic equation.

or

c) How are multi-dimensional arrays defined in C? Explain.

d) What is the function? Explain Different types of Functions?

4. a) What is Structure? Explain how to create a structure in C.

or

b) What is File? Explain the different type of I/O Operations in File.

## SECTION-B

Answer any FOUR questions

4 x 5 = 20

5. What are the different types of Programming Languages.
6. What is flow chart? Explain the different types of symbols.
7. Explain the various types of communication media.
8. Explain the different types of communication protocols.
9. Explain the data types in C language.
10. Explain the Looping Statements.
11. What is string? Explain the various types of the String functions.
12. Explain the pre-processor statements.