2014

Time : 3 Hours

Full Marks -75

Candidates are required to give their answers
In their own words as far as practicable

The questions are of equal value

Answer any five questions selecting
At least one from each group

Group A

1. What do you mean by Data transmission modes? Describe simplex, Half Duplex and full Duplex

    Communications with suitable example.

2. What is switching network? Explain the techniques of circuit switching.

3. Explain the architecture of OSI model with the functionality of each layer in OSI model.

4. a) Prove the Distributive laws of Boolean algebra.

    b) Explain logic gates with their truth tables.

5. Write short notes on my three of the following :

    a) URL

    b) Email address

    c) Portals

    d) Internet Vs Intranet

    e) ISP

Group B

6. a) What are the characteristics of expression in the „C"- language?

    b) Explain different ways of representing expressions.

7. What do you mean by formatted I/O operations in „C"? Explain scan f ( ) and print f ( ) functions
    With suitable examples.

8. What is an array? How an array is declared and initialized in a „C" – Program? Explain with example.

9. a) Explain „ call by value" and „call by reference" technique.

    b) Write a „C"- program to swap two numbers.

10. Write short notes on any three of the following :

    a) Pointer

    b) Dynamic memory management

    c) Text file Vs Binary file

    d) Macros

    e) #include directive