2013

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 communication? What are the different types of transmission mode? Explain.

2. What do you mean by guided and unguided media? Describe about the different types of unguided media?

3. What do you mean by switching? What are the three fundamental switching method? Explain.

4. (a) What is the purpose of domain name system? Discuss the three main division of the domain name space.

   (b) What do you mean by electronic-mail? What are its protocol?

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

   (a) Satellite communication

   (b) Bridge

   (c) Serial and parallel communication

   (d) Encode and Decoder

(e)   **Internet and intranet**

Group- B

6.   (a)   **Who developed C language? What is the goal of structured programming?**

     (b)   **Explain about the popular features of C language?**

7.   (a)   **What are the different types of operators available in C? Mention the operand types they work with?**

     (b)   **What is constant? Explain the four basic types of constant in C ?**

8.   (a)   **What is the difference between scanf() and gets() with respect to data input embedded white space character?**

     (b)   **Using printf, print a triangle of stars(*) like**

```
        *

    *   *   *

*   *   *   *   *
```

9.   **What are pointers? What is function of a pointer variable? What are its uses?**

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

     (a)   **Single and multi dimensional array**

     (b)   **The need and from of C function**

     (c)   **Union**

     (d)   **Pre- processor directive**

     (e)   **Switch statement**

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