Subject : Fundamentals of Information Technology

Day : Monday   **S.D.E.** ‖‖‖‖‖‖‖‖‖‖‖‖   Time : 10.00 AM TO 1.00 PM
Date : 05/12/2016   **33257**   Max Marks : 80   Total Pages : 1

N. B. :

1) Attempt **ANY FIVE** questions from **Section – I** and attempt **ANY TWO** questions from **Section - II**.
2) Answers to both the sections should be written in the **SAME** answer book.
3) Figures to the right indicate **FULL** marks.

SECTION - I

Q.1 List and explain importance characteristics of a computer?   **(10)**

Q.2 How many types of storage are normally there in the storage unit of a computer system? Justify the need for each storage type?   **(10)**

Q.3 Explain the following tags with its attributes   **(10)**
i) 1234_9
ii) $A2B.D4_{16}$
iii) 247.65_6
iv) 1001.011_2
v) 111.02_2

Q.4 Add binary number 10111_2 and 1011_2 and Subtract binary number 01010_2 and 1000_2 **(10)**

Q.5 What is magnetic tape? Explain how data are stored and organized on a magnetic disk?   **(10)**

Q.6 What is monitor devices? Draw and explain monitor in brief?   **(10)**

Q.7 Define the following terms in context of disk storage?   **(10)**
a) Access Time   b) Latency   c) Seek Time   d) Transfer time

SECTION – II

Q.8 What is a random access storage device? Write example for few application for which such a storage devices is suitable & why?   **(15)**

Q.9 What is network topology? Describe these network topologies in common use? Write their relative advantages and disadvantages?   **(15)**

Q.10 Write short note on **ANY THREE** of the following :   **(15)**
a) Electronic Mail
b) File operation
c) Image Scanner
d) Touch Screen

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