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B.B.A. 1st Sem. (N.S.) 2014-17 Examination–November, 2014

Computer Fundamentals

Paper-BBAN-104

Time : 3 hours   Max. Marks : 50

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Section-A is **compulsory**. Attempt **four** questions selecting at least **one** question from each unit in section-B. All questions carry equal marks.

Section-A

1. (a) Mention the characteristics of computers.

   (b) Differentiate between system software and application software with one example for each.

(c) Give three advantages of windows over DOS operating environment.

(d) Define virtual memory.

(e) List the attributes of a file.

Section-B

Unit-I

2. (c) Draw a block diagram of a computer. Explain the function of each of the block.

(d) Explain how data is organized on a magnetic tape.

3. (a) What do you mean by computer organization ? Name and explain all the functional units of a computer system.

(b) What is a memory ? Write down the main differences between the primary and the secondary memory.

(c) Give the characteristics of data scanning devices.

Unit-II

4. (a) What is ASCII code ? How many bits per character does ASCII code use ?

(b) What is the binary equivalents of the decimal numbers 7,20,31,64 ?

(c) Perform subtraction using: 1's compliment method and 2's Complement method

$(11010)_2 - (10000)_2$

$(1000100)_2 - (1010100)_2$

5. (a) Find the octal equivalent of the following binary numbers:

(i) 1101000 (ii) 110110

(iii) 10111111 (iv) 11011101

(v) 1110001 (vi) 10000

(vii) 10110001100

(b) Find the Hexadecimal equivalent of the following binary numbers :

(i) 1101011 (ii) 11010

(iii) 10110011 (iv) 11011101

(v) 1110101 (vi) 1000

(vii) 10110001100

(c) Convert following numbers to decimal :

    (i) 110110_2 (ii) 2573_6

    (iii) $2A3B_{16}$ (iv) 1234_9

Unit-III

6. Mention the circumstances in which a user would be better off using a time-sharing system rather than a PC or a single user workstation ?

7. What is an operating system ? Enlist the functions of an operating system.

Unit-IV

8. How the customers of the banks have been benefitted with the applications of computers ?

9. How computers have come to the aid of patients and the doctors ? Describe the applications of computer systems.