2011

M B A

1st Semester Examination

COMPUTER APPLICATIONS IN BUSINESS (THEORY)

PAPER—MBA-108

Full Marks : 50

Time : $1\frac{1}{2}$ Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Write the answers to Questions of each Half in separate books.

(First Half)

(Marks : 50)

1. Answer any *four* questions of the following : 5×4

(a) Correct the following numbers from the given base to the base indicated.

(i) Decimal 225.225 to binary, Octal and hexadecimal.

(ii) Hexadecimal 2AC5.D to decimal, octal and binary.

(b) What is binary logic ? Define AND, OR logic with truth table.

(c) What is operating system ? What is the difference between Windows and Linux.

(d) Perform the following operation :

(i) Use 2's complement to perform

$(1010100)_2 - (1000100)_2$

(ii) Use 2's complement to perform

$(1000100)_2 - (1010100)_2$

(e) How does a CPU of a computer works ?

(f) Draw the truth table for three variables x, y and z whose output is xy + xz.

2. Answer any *two* questions : 10×2

(a) (i) Prove $xy + x'z + yz = xy + x'z$.

(ii) Draw the logic diagram for the L.H.S of the above boolean functions.

(iii) Find the dual for xy + x'z + yz.

(iv) Find the complement for xy + x'z + yz.

3+3+2+2

(b) What is computer? How many generations does computer has evolved through? Briefly explain.

2+8

(c) What is the difference between primary and secondary memory? Differentiate between RAM and ROM? How many types of operating system? Explain.

2+2+6

[*Internal Assessment : 10 Marks*]

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