2013

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) What is RAM ? Compare SRAM and DRAM.

(b) Differentiate between Multiprogramming and Multiprocessing.

(c) Briefly explain the difference between Primary memory and Secondary memory.

(d) Distinguish between Application Software and System Software.

(e) Distinguish between Data and Information.

(f) Briefly explain about two input devices and two output devices. What is Cache Memory?

$$2+2+1$$

2. Answer any *two* questions : 2×10

(a) Convert the following : 2×5

(i) $(1011011 \cdot 011)_2 = (\quad)_{10}$

(ii) $(1011011 \cdot 01)_2 = (\quad)_{16}$

(iii) $(3946 \cdot 125)_{10} = (\quad)_8$

(iv) $(23A4D \cdot A)_{16} = (\quad)_8$

(v) $(2725 \cdot 63)_8 = (\quad)_2$

(Continued)

(b) Solve the following : 2×5

    (i) Add 100111_2, 11011_2 and 110111_2.

    (ii) Subtract 0111000_2 from 1011100_2.

    (iii) Multiply 1010_2 with 1001_2.

    (iv) Subtract 01110_2 from 10101_2 using the complementary method.

$$2+2+3+3$$

(c) (i) Explain Multitasking.

    (ii) Draw basic Organization of a Computer System.

    (iii) Prove De-Morgans theorem :

$$\overline{x+y} = \bar{x}.\bar{y}$$

by Perfect induction.

(iv) Obtain the Canonical Sum of product form for the Switching (Boolean) function of defined by the truth table :

Decimal Code	x	y	z	f
0	0	0	0	1
1	0	0	1	0
2	0	1	0	1
3	0	1	1	1
4	1	0	0	0
5	1	0	1	0
6	1	1	0	1
7	1	1	1	1

3+2+3+2

[Internal Assessment : 10 Marks]