MBA/IS/108/09 (Th.)

2009

MASTER OF BUSINESS ADMINISTRATION

(*Computer Applications in Business*)

[1st Semester]

(Theory)

PAPER — 108

Full Marks : 50

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

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

FIRST HALF

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

(*a*) Convert the following number to the given base:

(*i*) $(45)_{10} = (?)_8 = (?)_2$

(*ii*) $(B2)_{16} = (?)_8 = (?)_{10}$

(*b*) Perform the following operations:

(*i*) 1010 — 110011
using 1's complement.

(*ii*) 1100101 — 110
using 2's complement.

(*c*) Simplify the Boolean expression

(*i*) $Z = AB + A(B + C) + B(B + C)$

(*ii*) $Z = (x + y)\,[\overline{\bar{x}(\bar{y} + \bar{z})}] + \bar{x}\bar{y} + \bar{x}\bar{z}.$

(*d*) What is system software ? Explain : Assembler , Compiler. Differentiate between Compiler and Interpreter.

(*e*) Draw AND , OR and NOT gate using NOR gates only.

(*f*) Explain the basic block diagram of a Computer System.

2. Answer any *two* questions : 10×2

(*a*) What is operating system ? What are the differences between single user and multiuser operating system ? Explain the function of the operating system.

(*b*) What are the differences between primary and secondary memory ? Differentiate between ROM and RAM. What is internet and e-mail ? Give the name of few website who give us free e-mail facilities.

(*c*) What is DBMS (Database Management System) ? Why DBMS is used ? Explain the basic steps for Mailmerged in MS-Word. Explain de Morgan's theorem for Boolean algebra.

[*Internal Assessment* : 10 Marks]
