

2012

M B A

1st Semester Examination

COMPUTER APPLICATIONS IN BUSINESS (THEORY)

PAPER—MBA-108

Full Marks : 50

Time : 1½ 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) Explain Single User, Multi User and Graphical User Interface Operating System.

(Turn Over)

- (b) Write Huntington's postulates of Boolean algebra.
- (c) Distinguish between Application Software and System Software. 5
- (d) Write the differences between compiler and Interpreter.
- (e) Briefly explain, the differences between Primary and Secondary Memory, with examples. 5
- (f) Prove $\overline{AB} + A\overline{B} = \overline{(AB + \overline{AB})}$ using truth table.

2. Answer any two questions : 10×2

(a) Convert the following

(i) $(11001011)_2 = (\quad)_{10}$

(ii) $(11101101.10101)_2 = (\quad)_8$

(iii) $(59.99)_{10} = (\quad)_2$

(iv) $(336.36)_{10} = (\quad)_8$

(v) $(145A.3D7)_{16} = (\quad)_8$.

5×2

(b) Solve the following

- (i) Subtracting $(1001111 \cdot 101)_2$ from $(1110000 \cdot 01)_2$
- (ii) Adding $(11010111)_2$, $(1110001)_2$ and $(111111)_2$
- (iii) Multiply 1111_2 with 111_2
- (iv) Subtract the following using 2's complement :
 $(1010111 \cdot 001)_2$ from $(10110110 \cdot 11)_2$

2+2+3+3

(c) (i) Differentiate between Multiprogramming and Multiprocessing.

(ii) Draw the truth table for three variables x, y and z whose output is $xy + yz + \overline{y}z$.

(iii) What are the main functions of operating system.

4+4+2

[Internal Assessment : 10 Marks]
