

2017**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.***(First Half)**

1. Answer any *four* questions of the following : 4×5
- (a) State the functions of a computer system.
 - (b) What role do information play in corporate environment ?
 - (c) Give the truth table of XOR and NAND gate.
 - (d) What do you mean by CPU, ALU and CU ?
 - (e) What do you mean by a complement of a number ? Give example. Also, state its advantage in digital logic.

(Turn Over)

(f) Compare 1st generation of computer with 3rd generation of computer.

2. Answer any *two* questions : 2×10

(a) Perform the given operations : 5×2

(i) $(5624)_{10} = (?)_2$

(ii) $(101101)_2 - (101011)_2$ Using 2's complement.

(iii) $(C3A5)_{16} = (?)_{10} = (?)_8$

(iv) $(33)_{10} * (5)_{10} = (?)_2$

(v) $(1011001)_2 - (101011)_2$ without using 2's complement.

(b) (i) What is an operating system? State the advantages of unix operating system over windows operating system.

(ii) How does an operating system manages Memory and Processor. (2+4)+4

(c) (i) Briefly explain the different types of computer system.

(ii) Draw a block diagram and truth table of the given boolean logic. $A'B+AB+AB'$ 6+4

[Internal Assessment : 10 Marks]