# MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

## BBA-106

### COMPUTER APPLICATIONS-I

Time Allotted: 3 Hours | Full Marks: 70

*The questions are of equal value.*
*The figures in the margin indicate full marks.*
*Candidates are required to give their answers in their own words as far as practicable. All symbols are of usual significance.*

## GROUP A
## (Multiple Choice Type Questions)

1. Answer any *ten* questions. $10 \times 1 = 10$

(i) Assembler converts_____ to _____

(A) machine language to assembly language
(B) assembly language to high level language
(C) assembly language to fourth generation language
(D) assembly language to machine language

(ii) The equivalent binary number of the decimal number $(102)_{10}$ is

(A) $(1100110)_2$ (B) $(1100010)_2$
(C) $(1110010)_2$ (D) $(1111000)_2$

(iii) The equivalent hexadecimal number of the binary number $(1111111)_2$ is

(A) $(1F)_{16}$ (B) $(7F)_{16}$
(C) $(2F)_{16}$ (D) None of these

(iv) 4 bytes correspond to

(A) 32 bits (B) 4 bits
(C) 24 bits (D) 16 bits

(v) What is primary storage unit

(A) Printer (B) Random Access Memory
(C) Both (A) and (B) (D) None of these

(vi) CAN means

(A) Corporation Area Network
(B) Company Area Network
(C) Campus Area Network
(D) None of these

(vii) C++ is

(A) high level language (B) low level language
(C) middle level language (D) machine level language

(viii) Microsoft windows XP is

(A) GUI (B) CLI
(C) RMI (D) None of these

(ix) Hub is used in

(A) Bus topology (B) Ring topology
(C) Star topology (D) None of these

(x) _____ is an application software

(A) Operating system (B) Linker
(C) Word processor (D) None of these

(xi) _____ is/are non-volatile memory

(A) Ram (B) Hard Disk
(C) CD (D) Both (A) and (C)

## GROUP B
## (Short Answer Type Questions)

Answer any *three* questions. 3×5 = 15

2. What are differences between RAM and ROM. 5

3. Explain assembler, interpreter, compiler. 2+2+1

4. Write an algorithm and draw a flow chart to multiply two numbers. 5

5. Discuss about the different types of ROM available in computer hardware. 5

6. Define Cache memory and Virtual memory. 5

## GROUP C
## (Long Answer Type Questions)

Answer any *three* questions. 3×15 = 45

7. What do you understand by computer network? Differentiate internet and intranet. Describe seven layers of OSI model. 2+5+8

8. Discuss about the components of a digital computer. Differentiate Static RAM and Dynamic RAM. Discuss about the classification of software. 5+5+5

9. Explain hardware and software. What is information system? Discuss about the development process of information system. 4+3+8

10. What is algorithm? Describe the features of algorithm. Draw a flow chart and write an algorithm/pseudocode to check whether a number is prime number or not. 2+5+8

11. Write short notes on any *three* of the following: 3×5
    (a) Distributed network
    (b) CPU
    (c) Multimedia
    (d) Register
    (e) World wide web.