

AU-183

B.C.A. (Part-I) Semester-I Examination
COMPUTER FUNDAMENTALS
Paper—1ST1

Time : Three Hours]

[Maximum Marks : 60

Note :— (1) **ALL** questions are compulsory.
(2) All questions carry equal marks.

1. (a) Define computer. State the characteristics of it. 6
- (b) Describe the types of computer. 6

OR

2. (a) Explain first three generations of computer in detail. 6
- (b) State characteristics of main frame computers and enlist its application. 6
3. (a) What is the function of Mouse ? Explain its working. 6
- (b) Describe the types of printers. 6

OR

4. (a) Describe the function of OCR. 6
- (b) Explain the working of VDU. 6
5. (a) Differentiate between primary and secondary memory. 6
- (b) What is meant by cache ? State its advantages and disadvantages. 6

OR

6. (a) What is meant by memory ? Describe the types of primary memories. 6
- (b) Explain the terms :
 - (i) CD
 - (ii) DVD. 6

7. (a) Do as directed :
- (i) $(42)_8 = (?)_2$
 - (ii) $(1001.11)_2 = (?)_{10}$
 - (iii) $(CA)_H = (?)_8$ 6
- (b) Explain BCD code. State, how to convert decimal to BCD. Explain with suitable example. 6

OR

8. (a) Describe the procedure of decimal to binary conversion with suitable example. 6
- (b) Convert the following :
- (i) $(125)_8 = (?)_{10}$
 - (ii) $(258)_{10} = (?)_2$
 - (iii) $(100)_{11} = (?)_{10}$ 6
9. (a) Write an algorithm to interchange any two numbers. 4
- (b) What is meant by structured programming ? How it is achieved ? State its features. 8

OR

10. (a) Define the following terms :
- (i) Assembler
 - (ii) Interpreter
 - (iii) Compiler. 6
- (b) What is flow chart ? Draw the flow chart to calculate roots of quadratic equation. 6