

Bachelor of Commerce (Computer Application) (B.C.C.A.) Semester-I, (C.B.C.S.) Examination

FUNDAMENTALS OF COMPUTER

Compulsory Paper—3

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) Draw a well labelled diagram wherever necessary.

(2) **All** questions are compulsory.

PART—A

N.B. :— (1) Each question carries **2** marks.

(2) Answer should not be in more than **five** lines.

1. (a) What is micro computer ? 8×2=16
(b) Write a note on Random Access Memory.
(c) What do you mean by Flatbed Scanner ?
(d) Define display monitor.
(e) Write a short note on Artificial Intelligence language.
(f) Write a note on WAN.
(g) Write down the advantages and disadvantages of Real Time Operating System.
(h) Write a note on MS-DOS.

PART—B

N.B. :— (1) Each question carries **3** marks.

(2) Answers should not be in more than **ten** lines.

2. (a) Differentiate Primary Memory and Secondary Memory. 8×3=24
(b) Differentiate Hardware and Software.
(c) Write a short note on Joystick.

- (d) Write down the procedure with example to convert the Hexadecimal number into its equivalent decimal number.
- (e) What do you mean by software ? Draw a well labelled diagram of software layers.
- (f) What is Database Management System ? Give its advantages.
- (g) What is Memory Management ? Write down the activities performed by memory management.
- (h) Write a short note on Graphical User Interface.

PART—C

N.B. :— (1) Each question carries **5** or **10** marks.

(2) Answers should not be in more than **400** words for **5** marks questions and **600** words for **10** marks questions respectively.

EITHER

- 3. (A) Explain in short magnetic disk. 5
- (B) Discuss in brief categories of memory. 5

OR

- (C) Explain the generation of computer in detail. 10

EITHER

- 4. (A) Differentiate inkjet printer and laser printer. 5
- (B) What is scanning devices ? Explain the basic characteristics of these devices. 5

OR

(C) Write down the procedure of the following to convert into its equivalent base :

- | | | |
|-----------------------------|---------------------------|----|
| (1) $(110110)_2 = (?)_{10}$ | (2) $(1AB6)_{16} = (?)_2$ | |
| (3) $(8324)_{16} = (?)_8$ | (4) $(135)_8 = (?)_{10}$ | 10 |

EITHER

- 5. (A) Write a short note on bus topology. 5
- (B) What are the characteristics of good programming languages ? Give any ten. 5

OR

- (C) What do you mean by network topologies ? Write down any two advantages and disadvantages of Bus, Star, Mesh and Ring topology. 10

6. **EITHER**

- (A) Write a short note on multitasking operating system. 5
(B) Write a short note on multiprocessor operating system. 5

OR

- (C) Briefly explain any three types of operating system. 10