NKT/KS/17/4326

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 well labeled diagram whenever necessary.

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

PART—A

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

(2) Answer should not be in more than 5 lines.

1. (a) Write a note on random access memory.

(b) Differentiate analog and digital computer.

(c) What do you mean by Printers ? Define Impact Printers.

(d) What do you mean by input device ? List the different categories of input devices.

(e) Write a note on High Level Language.

(f) Write a note on LAN.

(g) What are the different roles performed by Operating System ?

(h) Write down advantages of GUI-based Operating System.   8×2=16

PART—B

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

(2) Answer should not be in more than **10** lines.

2. (a) Write a note on hybrid computer.

(b) Differentiate volatile memory and non-volatile memory.

(c) Write a short note on Drum Scanner.

(d) Write down the procedure with example to convert the decimal number into its equivalent binary number.

(e) Write down any three advantages and disadvantages of Second Generation Programming Languages.

(f) Define Network Topology. List the various types of Network Topologies.

(g) What is memory management ? Write down the activities performed by memory management.

(h) Explain the following External DOS commands with Syntax and example :

(i) ATTRIB

(ii) CHKDSK

(iii) TREE.   8×3=24

PART—C

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

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

EITHER

3. (A) List the different types of computers classified based on size and capability. Explain any two.

5

(B) List the different types of CPU registers. Explain in short. 5

OR

(C) Describe in detail the classification of computers. 10

EITHER

4. (A) Explain all categories of keys found on a typical keyboard with the help of diagram. 5

(B) Differentiate between CRT Monitors and LCD Monitors. 5

OR

(C) Convert the following into its Equivalent Base :

(i) $(10110110)_2 = (?)_8$

(ii) $(1432)_8 = (?)_2$

(iii) $(1AB)_{16} = (?)_2$

(iv) $(D4A)_{16} = (?)_{10}$

(v) $(135)_{10} = (?)_2$. 10

EITHER

5. (A) What is algorithm ? Illustrate with suitable example. 5

(B) Write a note on Mesh topology. 5

OR

(C) What do you mean by Computer Network ? Explain in short any four computer networks based on Geographical area. 10

EITHER

6. (A) Write a short note on Multitasking Operating System. 5

(B) Explain the following DOS commands with syntax and example :

(i) DIR

(ii) COPY

(iii) TYPE

(iv) DEL

(v) MD. 5

OR

(C) What are the basic operations performed on word documents ? Explain all of them in detail.

10