41123/A 230

Reg. No. | | | | | | | | |

First Semester B.C.A.4 Degree Examination, Nov./Dec. 2017
COMPUTER FUNDAMENTALS
(Regular)

Time : 3 Hours Max. Marks : 80

Instructions : *1) **All** the **three** Sections are **compulsory**.*
*2) Answer the questions of a **Section** together.*
*3) **Draw** diagram where **necessary**.*

PART – A

1. Answer **any ten** of the following : **(10×2=20)**

a) What is data processing ?

b) State the functions of input unit.

c) Why binary numbers are used in computer system ?

d) Expand the term BCD and MIPS.

e) Define word length.

f) What is microprocessor ?

g) Hardware and software of computer system are like two sides of a coin. Justify.

h) What are the two modes of editing text in MS word ? Explain briefly.

i) Define operating system.

j) What is the purpose of title bar in windows operating system ?

k) What is multiprogramming ?

l) What is the purpose of 'tail' and 'cat' command in Linux operating system ?

P.T.O.

PART – B

Answer **any four** questions of the following : **(4×5=20)**

2. Explain John Von Neuman's 'Stored program' concept for computer.
3. Draw the block diagram to illustrate the basic organization of computer system and state the functions of each unit.
4. Explain the code (**any one**) :
   i) ASCII
   ii) EBCDIC.
5. Explain the advantages and limitations of magnetic disk.
6. Distinguish between system software and application software. Explain briefly any two commonly known application software.
7. State the purpose and syntax of following commonds (**any five**) :
   i) *l*s
   ii) cd
   iii) mkdir
   iv) mv
   v) cp
   vi) rm.

PART – C

Answer **any four full** questions : **(4×10=40)**

8. a) Explain any five characteristics of computer.
   b) Explain five basic functions performed by computer system. **(5+5)**
9. a) i) Convert the given binary $(110110)_2$ to its equivalent decimal, octal and hexadecimal number.
      ii) Convert the given decimal number $(425)_{10}$ to its equivalent binary and octal number.
   b) Discuss various number system and state their base and symbols (digits) in them. **(5+5)**

10. a) What is primary memory and briefly explain any four types of ROM.
    b) Write note on (**any one**) :
        i) Printer
        ii) Access time w.r.t. disk. **(5+5)**

11. a) Discuss formatting of document.
    b) Explain the concept (**any one**) :
        i) Multi programming
        ii) Time sharing. **(5+5)**

12. a) Explain (**any one**) :
        i) Task bar
        ii) File and folders.
    b) Write note on (**any one**) :
        i) Desktop
        ii) Display properties. **(5+5)**