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**Credit Based First Semester B.C.A. Degree
Examination, October/November 2017
FUNDAMENTALS OF INFORMATION TECHNOLOGY
(Common to all Batches)**

Time : 3 Hours

Max. Marks : 80

Note: Answer **any ten** questions from Part – A and **one full** question from **each** Unit in Part – B.

PART – A

(10×2=20)

1. a) Differentiate Minicomputers from Mainframe computers.
- b) What is a DMA controller ?
- c) Define system bus. Brief the three functional lines of it.
- d) Expand ENIAC and OMR.
- e) What is the use of projectors and headphone ?
- f) Mention the advantages of magnetic disks over magnetic tapes.
- g) Define flowchart. Represent any two symbols with its description.
- h) Compare application software with system software.
- i) Define the terms : (i) Device Drivers (ii) Browser.
- j) Define worksheet and workbook of MS Excel. Mention the types of data in a worksheet.
- k) List the database objects of MS Access.
- l) State the categories of functions provided by Excel.

PART – B

Unit – I

2. a) Discuss any five differences between second generation and third generation computers.
- b) Explain Cache Memory.
- c) Write a note on classification of computers.

(5+5+5)

P.T.O.



3. a) Explain the components of a computer system with a neat diagram.
b) What is RAM ? Explain the two types of RAM.
c) Briefly explain any five applications of computers. (5+5+5)

Unit – II

4. a) Explain the read/write operation of a hard disk.
b) Write a note on USB and OCR.
c) Explain the working of laser printer. (5+5+5)
5. a) Write a note on optical disks.
b) Explain the working of keyboard.
c) Define output device and describe the characteristics of impact printers. (5+5+5)

Unit – III

6. a) Explain the phases of program development cycle.
b) List and briefly explain the functions of system utility.
c) Discuss any four different types of internet connections. (6+5+4)
7. a) Explain the process of translating high level language into machine language.
b) Write a note on commonly used application software.
c) Define the following terms :
i) Open source software ii) ISP iii) Download and upload. (5+4+6)

Unit – IV

8. a) Briefly explain the windows accessories.
b) Define mail merge and explain the components of a mail merge.
c) Discuss the different types of chart provided in excel. (6+4+5)
9. a) Briefly explain MS office applications.
b) Write a note on system utilities in Windows XP. (8+7)