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BCACAC 107

Credit Based First Semester B.C.A. Degree Examination, Nov./Dec. 2018
FUNDAMENTALS OF INFORMATION TECHNOLOGY
(Common to all Batches)

Time : 3 Hours

Max. Marks : 80

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

PART – A

1. a) What is a bit ? Specify number of bits in Megabyte and Kilobyte. (10×2=20)
- b) What is ROM ? Give any two types of ROM.
- c) Define Main Memory Unit. Give an example.
- d) List any two types of input devices. Give suitable example for each.
- e) List any two types of secondary storage devices. Give example for each.
- f) Expand MICR and OCR.
- g) What is an internet application ? Give any two examples.
- h) Define Algorithm.
- i) What is Assembler ?
- j) Define operating system. Give any two examples.
- k) What is worksheet in MS Excel ? List the types of data used in a MS Excel worksheet.
- l) Differentiate MS Access from MS Excel.

PART – B

Unit – I

2. a) Explain how computers can be used to solve problem.
- b) Explain the characteristics of second and third generations of computers.
- c) Explain different types of RAM. (5+6+4)
3. a) Discuss the application of computers in science and engineering fields.
- b) With a neat diagram explain the interconnection between various components of a computer system.
- c) Explain the characteristics of a computer system. (4+6+5)

P.T.O.

**Unit – II**

4. a) Explain the different types of optical disks.
b) What are the benefits of secondary storage ? Discuss.
c) Explain the storage organization of magnetic disks. **(6+4+5)**
5. a) What are Hard Drives ? Explain how read and write operations performed on them.
b) What are the two categories of printers ? Explain.
c) Write a short note on Memory Stick. **(6+5+4)**

Unit – III

6. a) Differentiate between Compilers and Interpreters.
b) How programming languages are classified ? Explain.
c) Discuss the advantages and disadvantages of second generation programming languages. **(5+4+6)**
7. a) Name and explain any five symbols of flow chart.
b) Explain the factors to consider while selecting a good programming language.
c) Write a short note on Evolution of Programming Languages. **(5+5+5)**

Unit – IV

8. a) Explain any five formatting commands used in MS Word.
b) What is a query ? Explain how to create a query using the query wizard in MS Access.
c) Explain any five components of MS PowerPoint tool window. **(5+5+5)**
9. a) Explain any five special features of MS Word.
b) Explain the steps for creating a table using design view in MS Access.
c) Explain any five mathematical functions of MS Excel. **(5+5+5)**