

(4)

Unit - IV

8. (a) What is the difference between internal and external commands of MS-DOS. 4
- (b) What is the purpose of wild card character in DOS? Give the some wild card character and its purpose. 3.5
9. Write short notes on the following : 7.5
- (i) Sound Recorder
- (ii) Searching the files

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B.Sc. (Part-I) Examination, 2015

(New Syllabus)

COMPUTER SCIENCE

First Paper

(Computer Fundamentals)

Time Allowed : Three Hours]

[Maximum Marks : 50

Note: Answer five questions in all. Question No.

1 is compulsory. Attempt one question

from each of the four units. $2 \times 10 = 20$

1. (a) What is a System? Why do we often refer to a computer as a computer system?
- (b) Differentiate between the characteristics of primary and secondary storage of a computer system.
- (c) Why computers uses the binary number system?

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(2)

- (d) Write the key features of Microsoft Windows.
- (e) What is a utility program? Write three examples of utility programs.
- (f) What is purpose of output devices? List out the various output devices.
- (g) What do you understand by structured programming.
- (h) How does a flow chart help a programmer in program development?
- (i) Differentiate between EPROM and EEPROM.
- (j) Write the purpose of scroll bars.

Unit - I

2. What is "generation" in computer terminology? List various computer generations along with key characteristics of computers of each generations. 7.5

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3. List and explain some important characteristics of a computer. 7.5

Unit - II

4. Convert the following numbers : 7.5
- (i) $101110_2 = ?_8$
 - (ii) $1AC_{16} = ?_{10}$
 - (iii) $11001_2 = ?_{10}$
5. (a) Write the fundamental concepts of Boolean Algebra. 4
- (b) Draw the circuit and truth table of X-OR gate. 3.5

Unit - III

6. What is "Multivibrator"? Explain the working and uses of Astable, Monostable, Biastable multivibrator? 7.5
7. Draw the circuit diagram and truth table of Half adder and full adder, also write its applications? 7.5

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