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Unit-III

6. (a) Discuss the structure of a BASIC program along with the explanation of various input output statement. 5
- (b) Write a BASIC program to add first 50 Natural Numbers. 2½
7. (a) Explain various branching and looping constructs used in BASIC programming 4½
- (b) Write various Graphics related functions used in BASIC Programming 3

Unit-IV

8. Describe the file management function of operating system. Explain any two commonly supported file access methods at operating system level. 7½
9. Discuss the purpose of scheduler. Write the names of scheduling algorithms used Explain any one algorithm by giving suitable examples. 7½

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Roll No. \_\_\_\_\_

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

(Old Syllabus)

COMPUTER APPLICATION

Second Paper

(Operating System)

***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. 2×10=20

1. (a) With the help of a suitable diagram, explain various state of a process.
- (b) Differentiate between Internal and External commands of DOS.
- (c) Compare and contrast Multiprogramming and Multitasking operating systems.
- (d) Write the step by step boot process of IBM PC.

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- (e) Write a short note on device driver.
- (f) Discuss, why operating system is known as resource manager of the system.
- (g) Mention the advantage of Virtual memory.
- (h) Explain the features of distributed operating system.
- (i) Differentiate between process and task.
- (j) Write a short note on Real time operating system.

Unit-I

- 2. (a) Explain the working of 8086 microprocessor with the help of functional block diagram. 5
- (b) Explain five major functions of an operating system. 2½
- 3. (a) Write the main features of the following types of operating systems, outlining their limitations and strengths: 5
  - (i) Time sharing operating system
  - (ii) Batch system

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- (b) Elaborate the classification of software by giving examples. 2½

Unit-II

- 4. (a) Differentiate between interrupt driven and poll driven data transfers by giving examples. 3½
- (b) Discuss the purpose of COM, EXE and SYS files in Disk operating system. What is a batch file? Write various batch commands. 4
- 5. Explain various file Management functions of an operating system. 7½

Write the syntax of following DOS commands:

- (i) DIR
- (ii) RENAME
- (iii) DEL
- (iv) COPY
- (v) MKDIR

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