AV–1842

B.C.A. Part–I Semester–II Examination
OPERATING SYSTEM
Paper–2ST1

Time : Three Hours]   [Maximum Marks : 60

Note :—(1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Assume suitable data wherever necessary.

1. (a) What is operating system ? Explain types of operating system.   6

(b) Explain :

(i)   Compiler

(ii) Interpreter

(iii) Assembler.   6

OR

2. (a) Explain different components of Unix operating system.   6

(b) Explain :

(i)   Multiprogramming

(ii) Multitasking.   6

3. (a) Explain booting process of DOS in detail.   6

(b) Explain the following commands with example :

(i)   FORMAT

(ii) ATTRIB

(iii) CHKDSK.   6

OR

4. (a) Explain :

(i)   AUTOEXEC.BAT

(ii) CONFIG.SYS.   6

(b) Explain the following commands with example :

(i)   COPY

(ii) DEL

(iii) DIR.

5. (a) What is process ? Explain process states with transition diagram. 6

   (b) Explain shortest job-first scheduling with example. 6

OR

6. (a) What is process management ? Explain Round Robin scheduling algorithm. 6

   (b) Explain :

      (i) Batch Processing System.

      (ii) Process Control Block (PCB). 6

7. (a) Explain file management system. 6

   (b) Explain space allocation techniques. 6

OR

8. (a) Explain contiguous allocation with example. 6

   (b) What are basic operations performed on a file ? 6

9. (a) Explain the concept of memory management. 6

   (b) What is paging ? Explain. 6

OR

10. (a) What is segmentation ? Explain. 6

    (b) Explain FIFO page replacement algorithm with example. 6