B.C.A. Part–I (Semester–II) (Old) Examination

OPERATING SYSTEM

Time : Three Hours]   [Maximum Marks : 60

Note :— (1) All questions are compulsory.

   (2) All questions carry equal marks.

   (3) Use suitable data wherever necessary.

1. (A) What is software ? What are the types of software ? Explain.   6

   (B) Explain following terms :   6

       (i)   Kernel

       (ii) Shell

OR

2. (A) What is operating system ? What are the types of operating system ? Explain.   6

   (B) Explain following terms :   6

       (i)   Assembler

       (ii) Compiler

       (iii) Interpreter.

3. (A) What is booting ? What are the types of booting ? Explain.   6

   (B) Explain following commands with its syntax & example :   6

       (i)   MD

       (ii) COPY

       (iii) FORMAT

OR

4. (A) What is DOS ? Explain directory structure of DOS.   6

   (B) Explain following commands with syntax & example :   6

       (i)   REN

       (ii) XCOPY

       (iii) DATE

5. (A) What is process ? Explain process management with diagram.   6

   (B) Explain following term :   6

       (i)   Through Put

       (ii) Turn around Time

       (iii) Waiting Time

OR

6. (A) Explain batch processing system.   6

    (B) Explain following term :   6

         (i)   Shortest job first scheduling

         (ii) Time slicing

7. (A) What is file ? Explain the general attributes of file.   6

    (B) Explain tree structure directory with neat diagram.   6

OR

8. (A) Explan various space allocation techniques.   6

    (B) What are the basic operations that are performed on file ? Explain. 6

9. (A) What is segmentation ? Explain.   6

    (B) Explain the terms :   6

         (i)   FIFO

         (ii) LRU

OR

10. (A) Explain virtual page management.   6

     (B) What is demand paging ? Explain.   6