

AS-1502

B.C.A. (Part—I) Semester—II Examination

OPERATING SYSTEM

Paper—2-ST-1

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) Compare Application software with Utility software. 6

(b) Explain :

(i) UNIX

(ii) SHELL. 6

OR

2. (a) Explain different components of Linux Operating System. 6

(b) Explain :

(i) Compiler

(ii) Assembler. 6

3. (a) Explain with example :

(i) DEL

(ii) COPY

(iii) FORMAT. 6

(b) Explain directory structure of DOS. 6

OR

4. (a) Explain with example :
 - (i) ATTRIB
 - (ii) Autoexec.bat
 - (iii) Config.sys. 6
- (b) What is booting ? Explain different types of booting. 6
5. (a) What is process ? Explain process management with diagram. 6
- (b) What is process scheduling ? Explain First Come First Serve (FCFS) scheduling in brief. 6

OR

6. (a) Explain Round Robin Scheduling Algorithm. 6
- (b) Explain :
 - (i) Shortest Job-first scheduling
 - (ii) Batch Processing System. 6
7. (a) Explain space allocation techniques. 6
- (b) What are the basic operations performed on a file ? 6

OR

8. (a) Explain file management system. 6
- (b) What is sequential memory allocation ? 6
9. (a) Explain page replacement algorithm. 6
- (b) Explain virtual memory management. 6

OR

10. (a) What is segmentation ? Explain. 6
- (b) What is demand paging ? Explain. 6