

AU-190

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) Use suitable data wherever necessary.

1. (a) What is software ? Explain different types of utility software. 6
- (b) What is operating system ? Explain types of operating system. 6

OR

2. (a) Explain Unix Shell Applications. 6
 - (b) Explain application software and system software. 6
3. (a) What is Booting ? Explain different types of Booting. 6
 - (b) Explain following internal DOS commands with example :
 - (i) COPY
 - (ii) DIR
 - (iii) COPY CON. 6

OR

4. (a) Explain the structure of File Allocation Table (FAT). 6
 - (b) Explain following commands with example :
 - (i) Attrib
 - (ii) Path
 - (iii) CHKDSK. 6
5. (a) What is process management ? Explain. 6
 - (b) Differentiate between Preemptive and Non-Preemptive Scheduling. 6

OR

6. (a) Explain :
 (i) Throughput
 (ii) Turn around time
 (iii) Waiting time. 6
(b) What is process scheduling ? Explain priority scheduling in brief. 6
7. (a) What is file ? Explain the general file attributes. 6
(b) Explain different space allocation techniques. 6

OR

8. (a) What are the basic operations performed on a file ? 6
(b) Differentiate between single level and two level directory giving suitable diagram. 6
9. (a) Explain single user contiguous storage allocation. 6
(b) Explain following page replacement algorithms :
 (i) First-in-first-out
 (ii) Least recently used. 6

OR

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