

II B. Tech II Semester Supplementary Examinations, February - 2022
OPERATING SYSTEMS

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks

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- 1 a) Explain about Linus and BSD UNIX operating systems. [8M]  
b) Discuss about Solaris 10 D Trace dynamic tracing facility. [7M]
- Or
- 2 a) Discuss in detail about operating system structure. [8M]  
b) Describe the concept of system boot in detail. [7M]
- 3 a) Discuss about execution of remote procedure call. [8M]  
b) Explain in detail about multicore programming. [7M]
- Or
- 4 a) What scheduling? Explain about thread scheduling. [8M]  
b) Discuss in detail about the dining philosophers problem. [7M]
- 5 a) Explain about memory allocation and fragmentation. [8M]  
b) What are basic concepts of demand paging? Explain. [7M]
- Or
- 6 a) Define swapping. Explain swapping with a neat diagram. [8M]  
b) What is the cause of thrashing? Explain about working-set model. [7M]
- 7 a) Explain about file naming and file structure. [8M]  
b) Describe deadlock detection with multiple resources of each type. [7M]
- Or
- 8 a) Give an overview of disk structure. [8M]  
b) Discuss in detail about file system backups. [7M]
- 9 a) Explain about programmer interface of Windows XP. [8M]  
b) Discuss in detail about revocation of access rights. [7M]
- Or
- 10 a) What is access matrix? Explain implementation of access matrix. [8M]  
b) Discuss about security as a security tool. [7M]

