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| **MAHENDRA COLLEGE OF ENGINEERING**  Salem-Campus, Attur Main Road, Minnampalli, Salem -636 106.  **D:\Downloads\OLD\MCE-Logo1 copy.jpg** | | | | | | | | | | | | | | |
| **Class:** | | | | | **II YEAR IT B Section** | | | **Time :** | | | | | **1Hour 30 Mins** | |
| **Date:** | | | | |  | | |
| **Subject Code:** | | | | | **CS3451** | | | **Marks :** | | | | | **50 Marks** | |
| **Subject Name:** | | | | | **INTRODUCTION TO OPERATING SYSTEMS** | | |
| **INTERNAL EXAMINATION II (SET -A)** | | | | | | | | | | | | | | |
| **S. No** | | | **Question** | | | | | | | **Blooms Taxonomy Level** | | | | **Course Outcomes** |
| **Answer All Questions** | | | | | | | | | | | | | | |
| **Part A— (10 X 2=20)** | | | | | | | | | | | | | | |
| 1 | What is the purpose of Paging the page tables? | | | | | | | | Understand | | | | | CO-3 |
| 2 | What is Sequential- access file? | | | | | | | | Understand | | | | | CO-3 |
| 3 | Define an immutable shared file. | | | | | | | | Remember | | | | | CO-3 |
| 4 | Define TLB. | | | | | | | | Remember | | | | | CO-3 |
| 5 | Define external fragmentation. | | | | | | | | Remember | | | | | CO-3 |
| 6 | Write short note on file system mounting. | | | | | | | | Understand | | | | | CO-4 |
| 7 | What is SSD? | | | | | | | | Understand | | | | | CO-4 |
| 8 | Suppose that the disk rotates at 7200 RPM. What is the average rotational latency of this disk drive? | | | | | | | | Understand | | | | | CO-4 |
| 9 | What is Virtual Machine? | | | | | | | | Remember | | | | | CO-4 |
| 10 | Write a note on Android? | | | | | | | | Understand | | | | | CO-4 |
| **Part B — (03X 10=30)** | | | | | | | | | | | | | | |
| 11.a) | | (i) | | What is Directory? Outline a tree-structured directory structure and an acyclic-graph directory structure with appropriate examples. | | | 10 | | | | | Remember | | CO-4 |
| [OR] | | | | | | | | | | | | | | |
| 11.b) | | (i) | | Explain contiguous allocation and linked allocation of disk space with an examples, | | 10 | | | | | Remember | | | CO-4 |
| 12.a) | | (i) | | Present an outline of the types of virtual machines.Explain in detail. | | 10 | | | | | Understand | | | CO-5 |
| [OR] | | | | | | | | | | | | | | |
| 12.b) | | (i) | | Outline the operating system aspects of Virtualization in the context of operating system functions scheduling, I/O and memory management. | | 10 | | | | | Understand | | | CO-5 |
| 13.a) | | (i) | | Explain the architecture of iOS .Discuss the media and service layers clearly. | | 10 | | | | | Understand | | | CO-5 |
| [OR] | | | | | | | | | | | | | | |
| 13.b) | | (i) | | Explain in detail about the Android architecture and its components. | | 10 | | | | | Understand | | | CO-5 |

**FACULTY-INCHARGE HOD PRINCIPAL**