

ANURAG Engineering College

(An Autonomous Institution)

III B.Tech I Semester Supplementary Examinations, Dec-2023/Jan-2024

COMPUTER ORGANIZATION AND OPERATING SYSTEM**(ELECTRONICS AND COMMUNICATION ENGINEERING)****Time: 3 Hours****Max.Marks:75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. List out the advantage and disadvantages of using a fixed-point representation.	CO1	L1	2M
2. What is Bus Transfer in Computer Architecture?	CO1	L2	3M
3. Explain the Read-Only Memories	CO2	L1	2M
4. Explain the Control Memory	CO2	L2	3M
5. What is the input-output processor in computer architecture?	CO3	L1	2M
6. What are the types of peripheral devices?	CO3	L2	3M
7. Explain any two main functions of an operating system.	CO4	L2	2M
8. Explain the protection and security in operating system.	CO4	L1	3M
9. Which structure is used to implement file system handled by OS?	CO5	L2	2M
10. What is the file system interface in operating system?	CO5	L2	3M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11.A) Explain the floating-point representation of data.	CO1	L2	10M
OR			
B) Explain the Multiprocessors and Multi Computers.	CO1	L2	10M
12.A) Explain the about RAID and its advantages.	CO2	L3	10M
OR			
B) Explain the cache memory and its mapping techniques.	CO2	L3	10M
13.A) Explain the Asynchronous Data Transfer Modes.	CO3	L2	10M
OR			
B) Explain the RS232 Serial Communication Protocols.	CO3	L2	10M
14.A) Explain the Operating System Services and System Calls.	CO4	L3	10M
OR			
B) Explain the Deadlock Characterization and Deadlock Detection.	CO4	L3	10M
15.A) Discuss the different file allocation methods with suitable example.	CO5	L2	10M
OR			
B) Explain the Free-Space Management and File System Mounting.	CO5	L3	10M