

ANURAG Engineering College

(An Autonomous Institution)

II B.Tech II Semester Supplementary Examinations, Jan/Feb2024

COMPUTER ORGANIZATION

(COMPUTER SCIENCE AND 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. Define computer organization.	CO1	L1	2M
2. List the characteristics of CISC.	CO1	L1	3M
3. State the major characteristics of pipeline.	CO2	L1	2M
4. Differentiate serial and parallel processing.	CO2	L2	3M
5. Differentiate main memory and auxiliary memory.	CO3	L2	2M
6. Why memory hierarchy is important in computer system?	CO3	L2	3M
7. Write down the function of I/O module.	CO4	L2	2M
8. How Asynchronous data transfer occurs?	CO4	L2	3M
9. State the features of crossbar switch.	CO5	L1	2M
10. How many ports does a multiport memory have?	CO5	L2	3M

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

11. A) Summarize the significance of addressing modes and explain how to calculate effective address in each addressing mode with an example.	CO1	L3	10M
OR			
B) Explain in detail about Instruction cycle state diagram.	CO1	L2	10M
12. A) Explain about Delayed load and Delayed branch	CO2	L2	10M
OR			
B) What is pipe lining? Demonstrate six stages of CPU instruction pipeline	CO2	L3	10M
13. A) What is the need of replacement algorithm for a cache memory? Explain any two cache replacement strategies.	CO3	L3	10M
OR			
B) Explain address sequencing mechanism in micro programmed control	CO3	L2	10M
14. A) What do you understand by the term 'program Interrupt'? Explain with the help of suitable diagrams.	CO4	L3	10M
OR			
B) Illustrate the series of actions that a DMA controller will perform after it receives a request from a peripheral device to transfer data from the peripheral device to memory.	CO4	L3	10M
15. A) Illustrate with necessary example, the memory organization in multiprocessor.	CO5	L3	10M
OR			
B) Explain Flynn's classifications with suitable diagrams.	CO5	L2	10M