ANURAG Engineering College

(An Autonomous Institution)

III B.Tech I Semester Supplementary Examinations, June/July - 2024 COMPUTER ORGANIZATION AND ARCHITECTURE (ELECTROICS AND COMMUNICATION ENGINEERING)

Time: 3 Hours Max. Marks: 75				
Section – A (Short Answer type questions)			(25	— Marks)
	r All Questions	Course	B.T	Marks
	Y Tank & Management	Outcome	Level	
1.	Differentiate between SRAM & DRAM.	CO1	L2	2M
2.	How many registers are there in SIC XE?	CO1	L1	3M
3.	List any four addressing modes where effective address is obtained by computation.	CO2	L1	2M
4.	What do you mean by an interrupt?	CO2	L1	3M
5.	What is control memory?	CO3	L1	2M
6.	What are the different types of control units?	CO3	L1	3M
7.	What are the different types of secondary storage?	CO4	L1	2M
8.	What is read-only memory and its types?	CO4	L1	3M
		CO5	L1	2M
9.	What are the different types of data transfer mode?			
10.	What is the advantage of data transfer using DMA?	CO5	L1	3M
Section B (Essay Questions)				
Answer all questions, each question carries equal marks.		(5	X 10M	= 50M)
	Compare the key features of CISC and RISC architectures.	CO1	L2	10M
)	OR			
B)	Demonstrate the Von Neumann architecture	CO1	L3	10M
12. A)	Explain various phases of the instruction cycle in detail using neat	CO2	L2	10M
,	sketches.			
	OR			
B)	What is an addressing mode? Explain various addressing modes with examples.	CO2	L2	10M
13. A)	Explain about micro programmed control with neat sketch.	CO3	L2	10M
	OR			
B)	Draw the hardwired control unit organization and explain the	CO3	L3	10M
	functionality of each block			
14. A)	Explain cache mapping functions with examples.	CO4	L2	10M
17.11)	OR	001	112	10101
B)	What is virtual memory? Discuss how paging helps in	CO4	L3	10M
	implementing virtual memory			
15 4)	What is interpret? Evaloin the arierity interpret technique	CO5	L2	10M
15. A)	What is interrupt? Explain the priority interrupt technique OR	COS	1.2	10101
B)	Explain the method of DMA transfer. How does a DMA controller	CO5	L3	10M
	improve the performance of a computer?			