

**ANURAG Engineering College**  
(An Autonomous Institution)  
II B.Tech I Semester Regular Examinations, Jan/Feb-2024  
**COMPUTER ORGANIZATION AND MICROPROCESSOR**  
(INFORMATION TECHNOLOGY)

Time: 3 Hours

Max. Marks: 60

<b>Section – A (Short Answer type questions)</b>		<b>(10 Marks)</b>		
<b>Answer All Questions</b>		<b>Course Outcome</b>	<b>B.T Level</b>	<b>Marks</b>
1.	Define Computer Architecture.	CO1	L1	1M
2.	What is Instruction Code.	CO1	L1	1M
3.	Define segment register.	CO2	L1	1M
4.	What is the advantage of condition code flag register.	CO2	L1	1M
5.	Define OPCODE.	CO3	L1	1M
6.	What is the use of MOVESB instruction.	CO3	L1	1M
7.	What is the use of signed 2's complement representation.	CO4	L1	1M
8.	Define Isolated I/O.	CO4	L1	1M
9.	What do you mean by parallel processing? How it is achieved using pipelining concept?	CO5	L1	1M
10.	Define Vector Processing.	CO5	L1	1M

**Section B (Essay Questions)**

<b>Answer all questions, each question carries equal marks.</b>		<b>(5 X 10M = 50M)</b>		
11. A)	Explain different types of basic registers and how they are connected to a common bus?	CO1	L2	10M
<b>OR</b>				
B)	Explain about Input-Output Interrupt.	CO1	L2	10M
12. A)	Explain about general bus operation cycle of 8086.	CO2	L2	10M
<b>OR</b>				
B)	Illustrate different special processor activities in 8086.	CO2	L2	10M
13. A)	Write an Assembly Level program to find out decimal addition of Sixteen four-digit decimal numbers.	CO3	L2	10M
<b>OR</b>				
B)	Write an Assembly Language program to find out transpose of a 3x3 matrix.	CO3	L2	10M
14. A)	Illustrate Division Algorithm with an example.	CO4	L3	10M
<b>OR</b>				
B)	Explain about Daisy-Chain Priority with interrupt with a neat sketch.	CO4	L2	10M
15. A)	Explain about memory hierarchy with a neat sketch.	CO5	L2	10M
<b>OR</b>				
B)	Explain any two memory mapping methods in cache memory.	CO5	L2	10M

