Regulation R18 *Subject code:2P4EB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech IV Semester Supplementary Examinations, February 2024

COMPUTER ORGANIZTION

(CSE)

Maximum Marks: 70 Date:19.02.2024 **Duration: 3 Hours**

Note: 1.This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units , answer any one full questions from each unit which carries 10 marks.

	Part-A		
All the following questions carry equal marks (10X2M=20 Marks)		CO	Bloom Tx
1	Define Digital Computer.	CO1	L1
2	Compare Hardwired control and Micro programmed control.	CO1	L2
3	What are the advantages of DMA?	CO2	L1
4	Draw the micro instruction format for control memory.	CO2	L3
5	Write the importance of cache memory.	CO3	L1
6	Explain the need of memory mapping in memory organization.	CO3	L2
7	List the advantage of segmented memory.	CO4	L1
8	Draw the 8086 instruction format.	CO4	L3
9	Discuss four categories of instructions of 8086 micro-processor with examples.	CO5	L6
10	Write an Assembly Language Program to print largest A,B & C.	CO5	L1
	Part-B		
Answer all the questions (5X10M= 50Marks)			
11	Explain the instruction cycle stepwise of basic computer with help of flow chart. [10]	CO1	L5
	OR		
12	Explain various instruction formats of a basic computer with example for each type. [10]	CO1	L5
13	Explain the difference between isolated I/O and memory mapped I/O. [10]	CO2	L5
	OR		
14	Explain with the timing diagrams. [5+5] a) Strobe method b) Handshaking method	CO2	L5
15	A. Explain the set associative mapping of cache memory. [5] B. Discuss about Virtual memory concept. [5]	CO3	L5,L6
	OR		
16	Explain memory hierarchy of a basic computer system. [10]	CO3	L5
17	Draw the flag register format of 8086 micro-processor and explain about each flag. [10]	CO4	L3
	OR		
18	Explain the addressing modes of 8086 micro processor with examples. [10]	CO4	L5
19	Explain the interrupt structure of 8086 micro processor. [10]	CO5	L5
	OR		
20	Explain the pin diagram of 8086 micro-processor with functions. [10]	CO5	L5