



SYNERGY INSTITUTE OF ENGINEERING AND TECHNOLOGY, DHENKANAL

Near NH-55, Banamaliprasad – 759001

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NBA ACCREDITED

Assignment-II

Full Marks-40 Duration- Within 1 Week from Notification
Name- Registration No-

Subject with Code: Computer Organization and Architecture (CSPC2005)

Year & Semester: 2nd & IV

Course & Branch: B. Tech. & CSE

Academic Session: 2024-2025

Course Outcome	Total Marks	Marks Secured	Signature of Evaluator
CO2	40		
Level	Total Marks	Marks Secured	
L1-L3			
L4-L6			

Section-A

Answer All Questions

1. What is locality of reference? [2 marks] [CO2] [L2]
2. What is μ PC? [2 marks] [CO2] [L2]
3. What is the use of **WMFC** control signal? [2 marks] [CO2] [L2]
4. What is the difference between memory access and memory cycle time? [2 marks] [CO2] [L2]

Section-B

Answer All Questions

1. Explain the conversion of **virtual address** to **physical address**. [6 marks] [CO2] [L2]
2. Explain the main memory address format in **direct, associative & set associative** mapping. [6 marks] [CO2] [L2]

Section-C

Answer All Questions

1. Differentiate between write through and write back policies with example. [10 marks] [CO2] [L2]
2. **ADD (R3), R1**
Describe the machine instructions of the above instruction using one bus organization with diagram [10 marks] [CO2] [L2]

Additional Questions

1. What is cache memory?
2. What is control store?
3. Explain the two approaches for generating control signals.