Assignment-IV

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
CO4	40		
Level	Total Marks	Marks Secured	
L1-L3			
L4-L6			

Section-A
Answer All Questions

1. What is the advantage of using Booth algorithm? **[2 marks] [CO4] [L2]**

2. Write the algorithm for restoring division **[2 marks] [CO4] [L2]**

3. Write the algorithm for non-restoring division. **[2 marks] [CO4] [L2]**

4. In floating point numbers when so you say that an underflow or overflow has occurred? **[2 marks] [CO4] [L2]**

Section-B
Answer All Questions

1. Generate bit pair recoding of 11010. **[6 marks] [CO4] [L2]**

2. Using restoring division method, divide 8 by 3. **[6 marks] [CO4] [L2]**

Section-C
Answer All Questions

1. Using non-restoring division method, divide 8 by 3. **[10marks] [CO4][L2]**

2. Carry out multiplication of below two numbers using booth algorithm.

   (+13)x(-6) **[10marks] [CO4][L2]**

Additional Questions

1. Explain normalization of floating point numbers.

2. Differentiate between single and double precision floating point numbers..

3. Explain fast multiplication using bit pair recording..