## Tribhuvan University Institute of Science and Technology 2081

Bachelor Level / Second Year/ Third Semester/ Science Computer Science and Information Technology (CSC 208) (Computer Architecture)

Full Marks: 60 Pass Marks: 24 Time: 3 hours.

(OLD COURSE)

Candidates are required to give their answers in their own words as for as practicable. The figures in the margin indicate full marks.

Attempt any TWO questions.	. ,
	(2×10=20)
<ol> <li>Explain Booth's multiplication algorithm with suitable flowchart and multiplication algorithm.</li> </ol>	ly using Booth's
2. Explain the various types of addressing modes with example of each.	(5+5)
2 F 1 :	(10)
<ol> <li>Explain general model of hardwired control unit and also explain the major step hardwired control unit.</li> </ol>	c whon dani
and control unit.	(5+5)
Attempt any FIGUE Section B	
Attempt any EIGHT questions.	(8×5=40)
4. Discuss the logic microoperations with example.	,
5. What do you mean by error detection codes? Explain with example.	(5)
6. Explain about input-output interrupt with example.	(5)
7. Differentiate between RISC and CISC architecture.	(5)
8. Explain about data manipulation instruction with example.	(5)
9. Compare between I/O bus and interface module.	(5)
10. Explain about non-restoring division algorithm.	(5)
11. Differentiate between association algorithm.	(5)
<ul><li>11. Differentiate between associative and set associative mapping.</li><li>12. Write short notes on :</li></ul>	(5)
a) Gray code	(2×2.5=5)
b) Instruction format	(= 2.5 5)