TRIBHUVAN UNIVERSITY FACULTY OF MANAGEMENT Office of the Dean

Full Marks: 40 Time: 2 hrs.

 $I10 \times I = 101$

2014 BIM / Fourth Semester / ITC 220: Computer Organization

Candidates are required to answer the questions in their own words as far as practicable.

Group "A"

1.	Brief	Answer	Questions:
----	-------	--------	------------

Write the major advantage of floating point representation.

- .. What will be the solution of resource conflict pipeline hazard?
- What is oncode? iii.
- Why the size of data register is 16 bit in Basic computer? iv
- Why daisy chaining is required? v
 - vi Differentiate between strobe and handshaking.
 - Define locality of reference. vii.
 - viii. What is associative memory?
 - ix Define process.

Short Answer Ouestions:

Explain loosely coupled multiprocessor. x.

Group "B"

 $15 \times 3 = 151$

- How hardwired CU is better than micro-programmed CU?
- 3. Explain common bus system of basic computer.
- 4. What is instruction pipeline? Explain. Explain cache mapping techniques.
- 6. Explain Cache coherence.

Group "C"

Long Answer Questions:

5.

 $13 \times 5 = 151$

- Differentiate between combinational and sequential circuit. Draw circuit diagram for each of
- What do you mean by addressing mode? Explain some of the available addressing mode. 8
- Multiply (-13) × (+40) using Booth multiplication algorithm. 9.