TRIBHUVAN UNIVERSITY FACULTY OF MANAGEMENT

Office of the Dean January 2021

Full Marks: 60 Pass Marks: 30

Time: 1.5 hrs.

BIM / Third Semester / IT 217: Computer Organization

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

Attempt any Six Questions:

 $[6 \times 10 = 60]$

- 1. List the significance of complements in the digital computer. Explain fixed point representation with example.
- Explain arithmetic and shift micro operations in brief.
 - 3. Evaluate the arithmetic statement X=(P+Q)*(R+S) using a general register computer with three address and two address instruction format.
 - An instruction is stored at location 500 with its address field at location 501. The address field has value of 800. A processor register R1 contains the number 300. Immediate (c) Relative (d) Register Indirect.
 - Multiply (+7)₁₀ with (-3)₁₀ by using Booth's multiplication and draw flowchart for corresponding example.
- What is the use of control address register in micro programmed organization?
 - 7. What is the purpose of strobe pulse in asynchronous data transfer? Explain how8. What do you was a few to be problem in strobe control method.
 - 8. What do you mean by multiprocessor? List different interconnection structures and explain any two of them.

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