Total No. of Questions : 8] *[Total No. of Printed Pages : 1*

Roll No .....

CS/IT-402 (GS)

B.E. IV Semester Examination, June 2020

Grading System (GS)

Computer System Organization

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any *five* questions.
ii) All questions carry equal marks.

1. a) Write the names of flags found in 8085 microprocessor.
   b) Draw Von-Neumann architecture of computer.

2. What is the purpose of microprogram sequencer? Explain its internal structure and working in detail.

3. What do you mean by Register Transfer language? Give some suitable examples.

4. Explain the process of Arithmetic addition and subtraction of data in computer ALU.

5. Explain how addition and subtraction are performed in fixed-point numbers?

6. What are the pipeline hazards? How do they affect the speedup?

   OR

   Explain SIMD array processor along with its architectural diagram.

7. Differentiate : (any two)
   i) Non-vectored and vectored interrupt
   ii) Maskable and non-maskable interrupt
   iii) Hardware and software interrupt

8. Write short notes on any two of the followings:
   a) Accumulator
   b) Addressing modes
   c) Virtual memory

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