S. No.: 371 BATCH: 2007 – 2018 Reg. No.:

END OF SEMESTER EXAMINATIONS, APRIL / MAY - 2019
COMPUTER ORGANISATION AND ARCHITECTURE
SUBJECT CODE: 08UAIT04

MAJOR : B.Sc (IT) **SEMESTER : II**
TIME : 3 HOURS **MAX. MARKS: 75**

SECTION - A (5 X 2 = 10)

Answer ALL the questions:

1. What are the two operations of a stack and what is the stack pointer?
2. Define throughput.
3. What is a priority interrupt?
4. Draw the flowchart for adding and subtracting numbers in signed 2's complement representation.
5. What is main memory and auxiliary memory?

SECTION - B (5 X 4 = 20)

Answer ALL the questions:

6. a) Write about any four data transfer instructions.
   (OR)
   b) Explain in brief about any four Arithmetic instructions.
7. a) Explain Arithmetic Pipeline.
   (OR)
   b) Write a note on micro programmed control organization.
8. a) Write a note on DMA controller.
   (OR)
   b) Explain with diagram of CPU-IOP communication.
9. a) Write a note on Addition and Subtraction of signed magnitude numbers.
   (OR)
   b) Write a note on hardware implementation for signed magnitude data in division algorithm.
10. a) Explain in brief about the memory hierarchy.
    (OR)
    b) Write a note on magnetic disks.

SECTION - C (3 X 15 = 45)

Answer any THREE questions:

11. Elucidate the different types of addressing modes with suitable examples.
12. Explain about Pipelining.
13. With necessary diagrams explain about strobe control and handshaking method.
14. With flowchart explain the floating point arithmetic operations addition and subtraction.
15. Elucidate about Associative memory with necessary diagrams.

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