Code No: 136AU **R16**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, November/December - 2020
COMPUTER ORGANIZATION
(Electrical and Electronics Engineering)

Time: 2 hours **Max. Marks: 75**

Answer any five questions
All questions carry equal marks
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1. With the suitable example explain various memory reference instructions. [15]

2. Draw and explain the flag register of 8086 microprocessor. [15]

3. Write an assembly language program in 8086 to arrange the given 16-bit numbers in lowest to highest order. [15]

4. Discuss briefly about direct memory Access. [15]

5.a) Distinguish the characteristics of RISC and CISC.
b) What is cache memory? Explain the need of cache memory. [9+6]

6. What is register transfer language? Explain the basic symbols used in register transfer. Give examples for each one. [15]

7. Explain the physical address calculation in 8086 microprocessor. [15]

8. Explain about Interrupts and Interrupt service routines in detail. [15]

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