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## M.Tech II Semester Supplementary Examinations August/September 2018

## MICRO COMPUTER SYSTEM DESIGN

(Common to DSCE, DECS & ECE) (For students admitted in 2013, 2014, 2015 & 2016 only)

Time: 3 hours Max. Marks: 60

Answer any FIVE questions All questions carry equal marks

- (a) Draw a neat architecture diagram of 8088 and explain its components.
  - (b) Discuss about instruction set of 8088 processor.
- (a) Describe the memory paging mechanism of 80286.
  - (b) Discuss in detail about register organization in 80286.
- (a) Explain the functions of memory management unit in 80386.
  - (b) Describe about memory paging mechanism followed in 80386.
- 4 (a) Describe about branch prediction logic in Pentium Pro processor.
  - (b) Explain about I/O system organization in Pentium Pro processor.
- 5 (a) Describe about Pentium special register in detail.
  - (b) Draw a neat architecture diagram of Pentium dual core microprocessor and explain its components.
- 6 (a) Explain about direct memory access method with a neat diagram.
  - (b) Describe about how to design an I/O system. Give an example.
- 7 (a) Explain how memory is managed in a computer.
  - (b) Describe about virtual memory concept in 80286.
- 8 (a) Explain about internal architecture of 80387 in detail.
  - (b) Describe about various instruction sets of 8087 arithmetic coprocessor.

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