

Code: 9D06201

M.Tech II Semester Supplementary Examinations January/February 2017

MICRO COMPUTER SYSTEM DESIGN

(Common to DSCE, DECS & ECE)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain the functions of register set in 8086.
(b) Bring out the differences between 8086 and 8088.
- 2 (a) Discuss about addressing modes of 80286 with examples.
(b) List out the architectural features of 80286.
- 3 List out the architectural features of 80386 and 80486 microprocessors.
- 4 Discuss about branch prediction logic and cache structure in Pentium pro.
- 5 Describe the pin structure of Pentium IV processor and explain their functions.
- 6 With examples, discuss about the concepts of block transfer and DMA in micro computer systems.
- 7 Discuss about virtual memory concept of 80286 and other advanced processors with relevant diagrams.
- 8 Write short notes on the following:
 - (a) Internal structure of 8087.
 - (b) Instructions set of 8087.
