

Day: Wednesday

Date: 29/05/2019

Time: 02.30 PM TO 05.30 PM

Max Marks: 60

S-2019-2751

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Assume suitable data, if necessary.
 - 4) Use of non programmable calculator is **ALLOWED**.
 - 5) Draw neat and labeled diagrams **WHEREVER** necessary.
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Q.1 Draw functional block diagram of 80386DX. Explain features of 80386DX. (10)

OR

Q.1 Write difference between three operating modes of 80386DX. Explain any one in detail. (10)

Q.2 Describe UMA, NUMA and COMA with neat diagram. (10)

OR

Q.2 What is secondary storage? Explain RAID, Blue ray Disk, SSD and cloud storage in brief. (10)

Q.3 Explain sequence counter hardwired control design method in detail. (10)

OR

Q.3 Explain applications of microprogramming in detail. (10)

Q.4 What are the features of Intel Pentium processor? Draw and explain block diagram. (10)

OR

Q.4 Describe cache coherence in Pentium processor. (10)

Q.5 Explain closely coupled and loosely coupled multiprocessor systems. (10)

OR

Q.5 Explain Intel core i3, i5 and i7 architectures. (10)

Q.6 What is instruction pipelining? Explain pipelining in 80386DX Processor. (10)

OR

Q.6 Explain Flynn's classification of parallel processing. (10)