

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VI IT :SUMMER- 2022
SUBJECT : COMPUTER ORGANIZATION & ARCHITECTURE

Day : Tuesday
Date : 21-06-2022

S-13425-2022

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat diagrams **WHEREVER** necessary.
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Q.1 Draw and explain functional Block diagram of 80386. (10)

OR

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

Q.2 What is segmentation and paging? Describe in detail. (10)

OR

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

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

OR

Q.3 Explain the sequence counter method of hardwired control unit design with neat diagram. (10)

Q.4 Draw and explain Block diagram of Pentium processor with features. (10)

OR

Q.4 Describe the term cache organization and cache coherence. (10)

Q.5 Differentiate between closely and loosely coupled architectures. (10)

OR

Q.5 Explain the features of CISC architecture with neat diagram. (10)

Q.6 Describe the term Data dependency analysis and concurrency analysis in detail. (10)

OR

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

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