Total Page No.: 2 Roll No. 610501/610601 B.TECH. VI SEM MAIN/BACK EXAM AUGUST-2023 ELECTRICAL AND ELECTRONICS **ENGINEERING** (6EX3-01) - COMPUTER ARCHITECTURE **COMMON WITH EEE & EE** [Max. Marks: 80 Time: 2 Hours] [Min Passing Marks: Instructions to Candidates: Part – A: Short answer questions (up to 25 words) 5×2 marks = 10 marks. All 5 questions are compulsory. Part – B: Analytical/Problem Solving questions 4×10 marks = 40 marks. Candidates have to answer 4 questions out of 6. Part – C: Descriptive/Analytical/Problem Solving questions 2×15 marks = 30 marks. Candidates have to answer 2 questions out of 3. Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly. Use of following supporting materials is permitted during examination. (Mentioned in form No. 205) PART A

PART A Q. 1. What do you understand by interleaved memory? Q. 2. Differentiate between CISC and RISC architecturs. [2] Q. 3. What is meant by parallel processing? [2] Q. 4. How does DMA work? [2] Q. 5. With reference to pipelining. What is data hazards? [2] Z-246 [2] P.T.O.

PART B

Q. Lexplain the design of pipelined instruction units.	[10]
Q. 2. Discuss Flynn's classification fo computer architectures with diagrams.	[10]
9.3. What are different pipeline hazards? Explain each pipeline hazards.	[10]
Q. 4 What is DMA? Explain DMA mode of data transfer using a suitable block of	liagram
Give an example where DMA mode of data transfer is useful.	[10]
Expalin in brief different addressing modes of 80 × 86 microprocessor.	[10]
Q. 6. Differentiate between multiprocessor and multi-computer systems using neatly	labelled
schematic diagram. Compare their relative advantages.	[10]
PART C	
Q. 1. Explain the architecture of a basic computer with suitable diagram.	[15]
Q. 2 What do you mean by virtual memory? Discuss, how paging helps in imple	menting
virtual memory?	[15]
Q. 3. Describe in detail the Architectural details and features of a DSP processor.	[15]

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