

December 2022  
B.Tech.V SEMESTER

Advanced Computer Architecture (PEC-CS-S-501)

Time: 3 Hours  
Instructions:

Max. Marks:75

1. It is compulsory to answer all the questions (1-5 marks each) of Part -A in short.
2. Answer only four questions from Part -B in detail.
3. Different sub-parts of a question are to be attempted adjacent to each other.

**PART -A**

- Q1 (a) What do you mean by the terms computer organization and computer architecture? (1.5)
- (b) Define process, state and a machine. (1.5)
- (c) What are the system attributes that influenced the performance factors? (1.5)
- (d) What are the Bernstein's conditions for parallelism detection? (1.5)
- (e) Compare the features of hardwired and micro programmed decoder. (1.5)
- (f) What is data flow computer? (1.5)
- (g) Explain write-through versus write-back cache policies. (1.5)
- (h) Explain the function of Translation look aside buffer (TLB). (1.5)
- (i) What are the applications of symbolic processors? (1.5)
- (j) Draw the pipeline execution of super scalar processor. (1.5)

**PART -B**

- Q2 (a) Write a code fragment implementation of a vector summation for R/M architecture. (10)
- (b) Compare the control flow, data flow and demand driven mechanism in computer. (5)
- Q3 (a) What is a program partitioning? Explain the various level of parallelism in a program. (5)
- (b) What is virtual memory? Explain page replacement policies with examples. (10)
- Q4 (a) Consider the execution of an object code with 200,000 instructions on a 40-MHz processor. The program consists of four major types of instructions. (10)
- | Instruction type            | Instruction mix | CPI |
|-----------------------------|-----------------|-----|
| Arithmetic and logic        | 60%             | 1   |
| Load/Store with cache hit   | 18%             | 2   |
| Branch                      | 12%             | 4   |
| Memory reference/cache miss | 10%             | 8   |
- Calculate the average CPI when the program is executed on a uniprocessor with the above trace results and calculate MIPS rate based on the CPI.
- (b) Compare and contrast the CISC and RISC instruction set architecture. (5)
- Q5 (a) Explain the Hellerman's and Strecker's models associated with processor memory interaction (10)

# Question Paper Of Pec 2ban

**Scott C. Dulebohn**



**Question Paper Of Pec 2ban:**

## Reviewing **Question Paper Of Pec 2ban**: Unlocking the Spellbinding Force of Linguistics

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