

Computer Organization And Design 5th Edition Solution Pdf

Registration No:

Total Number of Pages: 02

B.Tech
PETSJ 002

5th Semester Regular Examination 2017-18
Computer Architecture & Organization
BRANCH: ECE, ETC
Time: 3 Hours
Max Marks: 100
Q.CODE: B459

Answer Question No.1 and 2 which are compulsory and any four from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: multiple type or dash fill up type (2 x 10)**
- The load instruction is mostly used to designate a transfer from memory to a processor register known as _____.
A. Accumulator B. Instruction Register
C. Program counter D. Memory address Register
 - Memory unit accessed by content is called _____.
A. Read only memory B. Programmable Memory
C. Virtual Memory D. Associative Memory
 - An n-bit microprocessor has _____.
A. n-bit program counter B. n-bit address register
C. n-bit ALU D. n-bit instruction register
 - The BSA instruction is _____.
A. Branch and store accumulator B. Branch and save return address
C. Branch and shift address D. Branch and show accumulator
 - In signed-magnitude binary division, if the dividend is (11100)₂ and divisor is (1001)₂ then the result is _____.
A. (00100)₂ B. (10100)₂
C. (11001)₂ D. (01100)₂
 - Von Neumann architecture is _____.
A. SISD B. SIMD
C. MIMD D. MISD
 - In a memory-mapped I/O system, which of the following will not be there?
A. LDA B. IN
C. ADD D. OUT
 - The time interval between adjacent bits is called the _____.
A. Word-time B. Bit-time
C. Turn around time D. Slice time
 - A Stack-organised Computer uses instruction of _____.
A. Indirect addressing B. Two-addressing
C. Zero addressing D. Index addressing
 - The multiplicand register & multiplier register of a hardware circuit implementing booth's algorithm have (11101) & (1100). The result shall be _____.
A. (-812)₁₀ B. (-12)₁₀
C. (12)₁₀ D. (-812)₁₀
- Q2 Answer the following questions: Short answer type (2 x 10)**
- What is SRAM and DRAM?
 - List out the types in displacement addressing.
 - Write the basic performance equation?
 - What is meant by hardwired control?
 - What is TLB?
 - What is delayed branching?
 - What are the problems faced in instruction pipeline?
 - Give comparison between memory mapped I/O and I/O mapped I/O.

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