

Question **1**

Partially correct

Mark 5.00 out of 10.00

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What are the characteristics of CISC?

- ☐ a. Most instructions are executed in 1 clock cycle
- ☐ b. Many addressing mode
- ☐ c. Equal length instructions
- ☒ d. Large number of instructions type

Question **2**

Partially correct

Mark 6.67 out of 10.00

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What are the characteristics of transistor comparing to vacuum tube?

- ☐ a. much smaller
- ☒ b. less error
- ☐ c. more expensive
- ☒ d. produce less heat
- ☐ e. was introduced earlier

Question **3**

Correct

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If a computer is 16 bits system. What does that mean? (multiple correct answers)

- ☐ a. The main memory (RAM) can have 16 bits maximum
- ☒ b. The ALU size is 16 bits
- ☒ c. The registers inside the CPU are 16 bits

Question **4**

Correct

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Which generation of a computer that introduce the integrated circuit?

- ☐ a. Second generation
- ☒ b. Third generation
- ☐ c. First generation
- ☐ d. Fifth generation
- ☐ e. Fourth generation

Question **5**

Correct

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What is the role of register flag inside a CPU?

- ☐ a. Store the operands to be used in the next execution.
- ☐ b. Process the data and return result back to RAM
- ☐ c. Store the instructions to be executed in the next clock cycle
- ☒ d. Store operation status to assist ALU execute operations.

Question **6**

Incorrect

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10.00

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What is pipelining? and how can it increase the computer performance?

- ☐ a. Shortening the CPU clock cycle, so that more instructions can be executed.
- ☐ b. Execute instructions in a way that no resources are idle so that CPU can process more instructions.
- ☒ c. Modify the instruction sequence to optimize the best sequence so that instructions can be run faster
- ☐ d. Execute instructions in parallel and produce the instruction output at the same time

Question **7**

Incorrect

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10.00

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Why does CPU need to send a command signal to any component that it needs to communicate?

- ☐ a. Command signal is used to check if the component is reachable or not.
- ☒ b. Command signal is used locate the address of the target component so that CPU can find a way to access to it. ✖
- ☐ c. Most computer component can have more than 1 function, such store data, process data or provide data to CPU. CPU need to tell that component what it need to do

Question **8**

Correct

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What is the correct steps for a CPU to execute an instruction?

- ☐ a. Decode instruction -> Fetch related data -> Execute Instruction -> Store result
- ☐ b. Execute instruction -> Decode result -> Store result back to the decoded address
- ☒ c. Fetch instruction -> Decode instruction -> Fetch operands if needed -> Execute instruction -> Write Result
- ☐ d. Fetch instruction's operand -> Decode the instruction -> Execute the instruction

Question 9

Correct

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Select the components which are located inside a CPU.

- ☒ a. L3 Cache
- ☐ b. ROM
- ☒ c. Memory Data Register
- ☐ d. RAM
- ☒ e. Arithmetic and Logic Unit



Question **10**

Correct

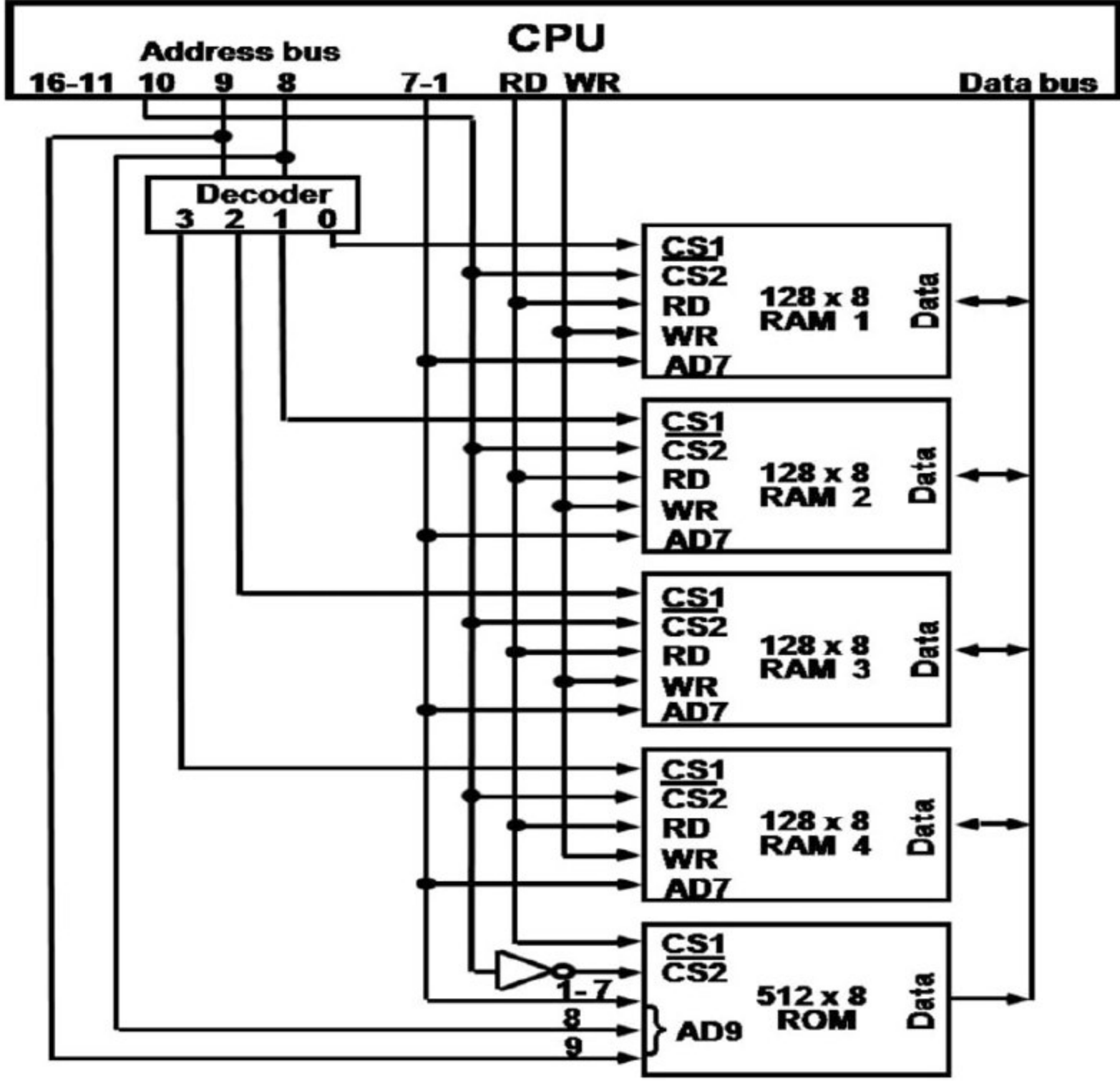
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Choose the architecture which is classified as Flynn's Classification

- ☐ a. General Purpose System
- ☐ b. Parallel Processing
- ☒ c. Single Instruction Multiple Data
- ☐ d. Von neuman Model





In this diagram, what is the address 8,9,10 of address bus is used for?

- ☐ a. To provide signal read or write to RAM
- ☐ b. To identify RAM selection or ROM selection
- ☒ c. To identify RAM module for CPU to retrieve data
- ☐ d. To store data that is return from RAM

Question **12**

Correct

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What is the main functionality of Random Access Memory?

- ☒ a. Store some instructions and data which is loaded from Hard Disk as well as the input data from user.
- ☐ b. Store all data that is integer, string and floating point value.
- ☐ c. store the data permanently that can be used by CPU later on
- ☐ d. Process data that is provided by user

Question **13**

Correct

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How does a computer program can calculate and produce result from a verify complicate problem?

- ☐ a. Because it store a lot of powerful hardware that can produce result automatically.
- ☒ b. Because computer program is consist of thousand or more instructions and each instruction can solve a simple problem. Combination of these instructions, it can solve a very complicate issue. ✓
- ☐ c. Because computer program can predict the answer from the provided problem

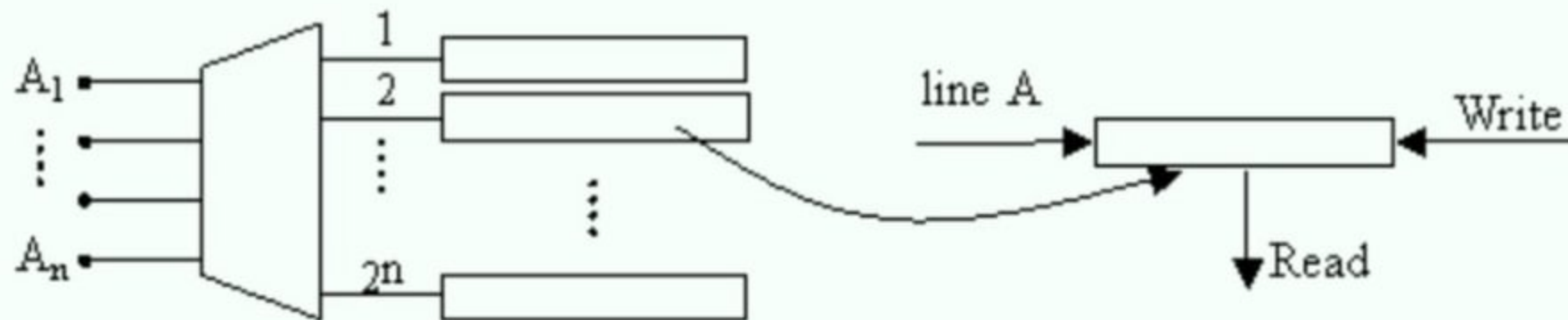
Question 14

Correct

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What is this type of memory selection?



- ☐ a. 2 dimensional selection
- ☒ b. Linear selection
- ☐ c. 3D selection

Question **15**

Partially correct

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What are the functionalities of system software?

- ☐ a. Manage other software over the resources needed
- ☐ b. Provide the interface to a particular hardware that allow other software to use it.
- ☒ c. Process and produce result such as display video or calculate a number
- ☒ d. Control and response to any critical errors happening while other softwares are being executed.