## Courses » Computer Organization and Architecture A Pedagogical Aspect

Announcements Course Ask a Question Progress FAQ

## Unit 2 - Week 1:

Fundamentals of Digital Computer

| Register for |
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| Certification exam |

## Course outline

How to access
the portal

Week 1:
Fundamentals of
Digital Computer

- Lecture 1:

Model of
Computer and
Working
Principle

- Lecture 2: Digital Logic Building Blocks
- Lecture 3: Information Representation and Number Systems

Quiz :
Assignment for Week 1

## Week 2:

Fundamental of
Digital Computer

Week 3:
Addressing
Modes,
Instruction Set and Instruction

## Assignment for Week 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this Due on 2019-02-13, 23:59 IST. assignment.

Assignment for Week 1

1) Computer architecture refers to
1 pointThe operational units and their interconnections that realize the architectural specifications
Those attributes of a system visible to a programmer.Those attribute that have a direct impact on the logical execution of a program.
Arrangement of system attributes with its associated file system.
No, the answer is incorrect.
Score: 0
Accepted Answers:
Those attributes of a system visible to a programmer.
Those attribute that have a direct impact on the logical execution of a program.
2) For a three input logic circuit shown below, the output $Z$ can be expressed as:

1 point

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| Week 5: <br> Addressing <br> Modes, <br> Instruction Set <br> and Instruction <br> Execution Flow | Accepted Answers: The output of the combinational circuit given below is |
| :--- | :--- |
| Week 6: <br> Organization <br> and Optimization <br> of Micro- <br> programmed <br> Controlled <br> Control Unit | B |

8, 11

No, the answer is incorrect.
Score: 0
Accepted Answers:
8, 11
7) The hexadecimal representation of $(657)_{8}$ is:

1 point1AFD78D71
32F

No, the answer is incorrect.
Score: 0
Accepted Answers:
1AF
8) Let $X$ be the largest number of distinct 16 bit integers in 2 's complement representation. Let 1 point Y be the number of distinct 16-bit integers in sign magnitude representation. Then $\mathrm{X}-\mathrm{Y}=$ ?


None of the above
No, the answer is incorrect.
Score: 0
Accepted Answers:
1
9) Given the following binary number in 32-bit (single precision) IEEE-754 format:

1 point 01000001000101000000000000000000
What is the equivalent decimal value?$+8.25$8.25$+9.25$-9.25
No, the answer is incorrect.
Score: 0
Accepted Answers:
+9.25
10)What would the numbers -45 and 123 be represented in the 8 -bit biased notation used in

1 point the exponents of single-precision numbers?01010110, 1101101001010010, 1111101001110010, 0111101001010010, 10111010

No, the answer is incorrect.
Score: 0
Accepted Answers:

