

Unit 3 - Week 1

Course outline

How does an NPTEL online course work?

Week 0

Week 1

- Lecture 01: Introduction
- Lecture 02: Introduction (Contd.)
- Lecture 03: Introduction (Contd.)
- Lecture 04: Basic Computer Organization
- Lecture 05: Basic Computer Organization (Contd.)
- Lecture 06: Basic Computer Organization (Contd.)
- Week 1 Lecture Notes

Quiz : Assignment 1

Week 1 Feedback Form

Week 2

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Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-02-12, 23:59 IST.

1) Perform $(2.625-10.25)$ using 2's complement arithmetic. 1 point

- a) $(00111.101)_2$
- b) $(11000.011)_2$
- c) $(01100.111)_2$
- d) $(10011.001)_2$

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

2) Represent $(-1)_{10}$ using 4 bit 2's complemet representation. 1 point

- a) $(1111)_2$
- b) $(1000)_2$
- c) $(-0001)_2$
- d) $(0001)_2$

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

3) In 2's complement number system, the range of values for 4-bit number is given as 1 point

- a) -8 to 7
- b) -16 to 16
- c) -7 to 8
- d) -7 to 7

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

4) The fractional binary number $(0.11)_2$ has a decimal value of 1 point

- a) $(\frac{1}{4})_{10}$
- b) $(\frac{1}{2})_{10}$
- c) $(\frac{3}{4})_{10}$
- d) None of the above

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

5) Which of the following components present in a computer? 1 point

- a) CPU, Memory
- b) Peripherals
- c) Both a & b
- d) None of the above

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

6) Program counter(PC) contains? 1 point

- a) Address of the current instruction
- b) Address of the next instruction to fetch
- c) Value of the operand
- d) starting address of the program

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

7) Instruction decoder 1 point

- a) Holds the address of the current instruction
- b) Contains next instruction to be fetch
- c) Decodes the OPCODE and generates control signals
- d) Fetches operands from memory

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

8) Fastest memory present in a computer? 1 point

- a) Flash memory
- b) RAM
- c) ROM
- d) Registers

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

9) If CS = $A_{15}' A_{14} A_{13}$ is used as the chip select of a 4K RAM in an 8085 system, then its memory range will be 1 point

- a) 3000-3FFFH
- b) 7000-7FFFH
- c) 5000-5FFFH and 6000-6FFFH
- d) 6000-6FFFH and 7000-7FFFH

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

10) ALU stands for 1 point

- a) Arithmetic Logic Unit
- b) Arithmetic Lower unit
- c) Addition Logic Unit
- d) AND Logic Unit

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.