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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » Microprocessors And Microcontrollers (course)


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Course
outline

About NPTEL
()

How does an
NPTEL online
course work?
()

Week 0 : ()

Week 1 ()

Lecture 01:
Introduction
(unit?
unit=18&lesson
=19)

Lecture 02:
Introduction
(Contd.) (unit?
unit=18&lesson
=20)

Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2025-02-05, 23:59 IST.

Assignment submitted on 2025-02-04, 11:34 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.

Yes, the answer is correct.

Score: 1

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.

Lecture 03:
Introduction
(Contd.) (unit?
unit=18&lesson
=21)

Lecture 04:
Basic Computer
Organization
(unit?
unit=18&lesson
=22)

Lecture 05:
Basic Computer
Organization
(Contd.) (unit?
unit=18&lesson
=23)

Lecture 06:
Basic Computer
Organization
(Contd.) (unit?
unit=18&lesson
=24)

Lecture
Material (unit?
unit=18&lesson
=25)

**Quiz: Week 1 :
Assignment 1
(assessment?
name=207)**

Feedback Form
(unit?
unit=18&lesson
=26)

Assignment 1
Solution (unit?
unit=18&lesson
=184)

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

3)

1 point

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

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

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

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.

Yes, the answer is correct.

Score: 1

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.

[Week 8 \(\)](#)[Week 9 \(\)](#)[Week 10 \(\)](#)[Week 11 \(\)](#)[Week 12 \(\)](#)[Download Videos \(\)](#)[Text Transcripts \(\)](#)[Books \(\)](#)

Yes, the answer is correct.

Score: 1

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.

Yes, the answer is correct.

Score: 1

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.

Yes, the answer is correct.

Score: 1

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.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

9)

1 point

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

- 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)

1 point

ALU stands for

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

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.