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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) ***1 point***

Perform (2.625-10.25) using 2's complement arithematic.

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) ***1 point***

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

a) $(1111)_2$
b) $(1000)_2$
c) $(-0001)_2$
d) $(0001)2$

- a.
- b.
- c.

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) ***1 point***

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

a) $(¼)_{10}$
b) $(½)_{10}$
c) $(¾)_{10}$
d) None of the above

a.
b.
c.
d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
c.

5) ***1 point***

Which of the following components present in a computer?

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

a.
b.
c.
d.

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Yes, the answer is correct.
Score: 1

Accepted Answers:
c.

6) ***1 point***

Program counter(PC) contains?

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) ***1 point***

Instruction decoder

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) ***1 point***

Fastest memory present in a computer?

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 memo 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) Arithematic Logic Unit
b) Arithematic Lower unit
c) Addition Logic Unit
d) AND Logic Unit

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

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.