

Assessment submitted.
X



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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Computer architecture and organization (course)**

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Unit 2 - Week 0

Course outline

How does an NPTEL online course work?

Week 0

● **Quiz : Assignment 0**
([assessment?name=18](#))

Week 1

Thank you for taking the Assignment 0.

Assignment 0

Your last recorded submission was on 2020-09-02, 02:17 IST

Due date: 2020-09-14, 23:59 IST.

1) What is the binary representation of 45_{10} ?

1 point

- a. 101001
- b. 111001
- c. 101101
- d. 101000

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☐ b.

☒ c.

☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

2) Express the hexadecimal number $AB27_{16}$ in binary?

1 point

a. 1010 1011 0010 0111

b. 1010 1111 0011 0111

c. 1011 1011 1010 0111

d. 1011 1010 1010 0111

☒ a.

☐ b.

☐ c.

☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

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3) Which of the following switching expressions represent the Exclusive-NOR of two variables A and B?

1 point

- a. $A'B + AB'$
- b. $A'B' + AB$
- c. $(A + B')(A' + B)$
- d. $(A' + B')(A + B)$

- ☐ a.
- ☒ b.
- ☒ c.
- ☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

b.
c.

4) Suppose A=0111 and B=1010, will there be an end around carry if you subtract B from A using 2's complement arithmetic?

1 point

- a. Yes
- b. No

- ☐ a.
- ☒ b.

Yes, the answer is correct.
Score: 1

Accepted Answers:

b.

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5) Consider two 8-bit numbers R1 and R2, with values R1 = 56 (in hexadecimal), R2 = 27 (in hexadecimal). What will be the value of R1 – R3 ?

1 point

- a. 29
- b. 2D
- c. 2E
- d. 2F

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
d.

6) Consider a NMOS transistor, what should be the value of gate input for which the transistor is in conducting state? Assume that Logic-1 corresponds to high voltage, and Logic-0 corresponds to low voltage.

1 point

- a. Logic 1
- b. Logic 0
- c. None of the above

- ☒ a.
- ☐ b.
- ☐ c.

Yes, the answer is correct.
Score: 1

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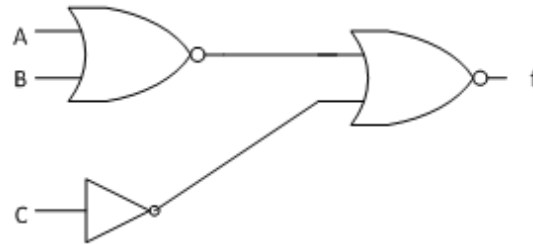
X

Accepted Answers:

a.

7) Consider the figure below, what will be the value of f when ABC = 101, and ABC = 001 ?

1 point



- a. 1 and 0
- b. 0 and 1
- c. 0 and 0
- d. 1 and 1

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

Assessment submitted.
X

8)

How many distinct switching functions of 3 variables are possible?

- a. 8
- b. 64
- c. 256
- d. 1024

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
c.

9)

Which of the following represents the correct order of memory types in terms of speed (fastest to slowest)?

- a. Register, Cache Memory, Main Memory, Secondary Memory
- b. Register, Main Memory, Cache Memory, Secondary Memory
- c. Cache Memory, Main Memory, Register, Secondary Memory
- d. None of these

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

1 point

1 point

Assessment submitted.
X

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.

10) What is the typical main memory capacity in a desktop computer system?

1 point

- a. 4 Kbytes
- b. 4 Mbytes
- c. 4 Gbytes
- d. 40 Gbytes

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
c.

You may submit any number of times before the due date. The final submission will be considered for grading.

Check Answers

Your score is: 10/10

Submit Answers

Assessment submitted.
X