

Sessional II

Total points 18/20 ?

Email *

shantanubobade1@gmail.com

Enter Your Name *

SHANTANU SANJAY BOBADE

Enter Your Roll Number *

31

✗ An arithmetic circuit that subtracts one binary digit from another considering a borrow is called a -----.

0/2

- ☐ Full adder
- ☐ Full Subtractor
- ☒ Half-Adder
- ☐ Half-Subtractor

✗

Correct answer

- ☒ Half-Subtractor



✓ An arithmetic circuit that adds only two binary digits is called a ----- 2/2
---.

- ☐ half subtractor
- ☒ half adder
- ☐ adder
- ☐ parallel adder



✓ Which of the following logic circuit accepts two binary digits on inputs, 2/2
and produces two binary digits, a sum bit and a carry bit on its outputs ?

- ☐ Serial adder
- ☐ Parallel adder.
- ☐ Full Adder
- ☒ Half-adder



✓ A full adder can be realized using 2/2

- ☒ two half-adder, one OR gate
- ☐ two half-adder , two OR gates
- ☐ two half-adder , one AND gates
- ☐ one half-adder , two OR gates



✓ In digital systems subtraction is performed

2/2

- ☐ Using half-adders
- ☐ Using half-subtractors
- ☒ Using adder with 1's complement representation of negative numbers
- ☐ By None of the above.

✓

✓ To secure a higher speed of addition, which of the following is the preferred solution?

2/2

- ☐ Serial adder
- ☐ Parallel Adder
- ☐ Full-adder
- ☒ Adder with a look-ahead-carry

✓

✓ How many inputs and outputs does a full-adder have?

2/2

- ☐ Two inputs, Three outputs
- ☐ Two inputs, two outputs
- ☒ Three inputs, two outputs
- ☐ Two inputs, one output

✓



✓ A full-adder and a full-subtractor can be realized by using at least ----- 2/2
-----NAND gates.

- ☐ 7
- ☐ 5
- ☐ 10
- ☒ 9



✓ The difference output in a full – subtractor is the same as the 2/2

- ☐ Difference output of a half-subtractor
- ☐ carry output of a full adder
- ☒ sum output of a full-adder
- ☐ sum output of a half-adder



✓ How many full-adders are required to construct an m-bit parallel adder? 2/2

- ☐ m/2
- ☐ m-1
- ☒ m
- ☐ m+1



This content is neither created nor endorsed by Google. - [Terms of Service](#) - [Privacy Policy](#).



Google Forms

