X

Unit 1 - How to access the portal

Course outline

How to access the portal
- Lesson 1: How to access the home page?
- Lesson 2: How to access the course page?
- Lesson 3: How to access the MCQ, MSQ and Programming assignments?
- Quiz : Assignment for Week 0

Introduction and High-level Synthesis [Part-1]

Introduction and High-level Synthesis [Part-2]

RTL Optimizations [Part-1]

RTL Optimizations [Part-2]

Logic Synthesis and Physical Synthesis

VLSI Testing [Part-1]

VLSI Testing [Part-2]

Assignment for Week 0

The due date for submitting this assignment has passed. **Due on 2018-01-20, 00:00 IST.**

Submitted assignment

1) How many full adders and half adders are required to construct an m-bit parallel adder? ***1 point***

- m/2 full adders and m/2 half adders
- m half adders
- m-1 full adders and 1 half adder
- m+1 half adders

No, the answer is incorrect.
Score: 0

Accepted Answers:
m-1 full adders and 1 half adder

2) How many types of flip-flops are generally used? ***1 point***

- 2
- 3
- 4
- 5

No, the answer is incorrect.
Score: 0

Accepted Answers:
4

3) How many inputs and outputs does a D flip-flop has (excluding the clock) ***1 point***

- 2 inputs and 2 outputs
- 1 input and 2 outputs
- 1 input and 1 output
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 input and 2 outputs

4) A clock with frequency X (MHZ) is applied to a cascaded counter containing a modulus-4 counter, a modulus-8 counter, and a modulus-10 counter. The lowest output frequency possible is _____ ***1 point***

- X/4 MHz
- X/8 MHz

Verification [Part-1]

Verification [Part-2]

- X/32 MHz
- X/320 MHz

No, the answer is incorrect.
Score: 0

Accepted Answers:
X/320 MHz

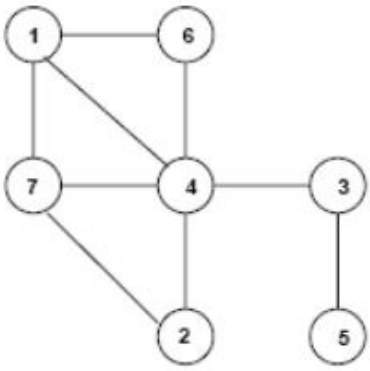
5) Which of the following describes most appropriately a “shift register” ***1 point***

- The register that can shift informationbits to another register
- The register that can shift information bits either to the right or to the left
- The register that can shiftin formation bits to the right only
- The register that can shift information bits to the left only

No, the answer is incorrect.
Score: 0

Accepted Answers:
The register that can shift information bits either to the right or to the left

6) What is the chromatic number of the following graph? ***1 point***

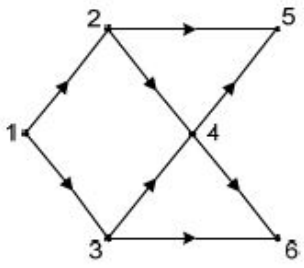


- 1
- 2
- 3
- 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
3

7) Consider the DAG with V = {1, 2, 3, 4, 5, 6} below. Which one the following is NOT a topological ordering? ***1 point***



- 1 2 3 4 5 6
- 1 3 2 4 5 6
- 1 3 2 4 6 5
- 3 2 4 1 6 5

No, the answer is incorrect.
Score: 0

Accepted Answers:
3 2 4 1 6 5

8) To achieve linear time complexity of Dijkstra's shortest path algorithm on undirected and unweighted graphs, the data structure to be used is ***1 point***

- Queue
- Stack
- Heap
- B-Tree

No, the answer is incorrect.
Score: 0

Accepted Answers:
Queue

9) A Language for which a DFA can be constructed is a_____ ***1 point***

- Regular Language
- Context free Language
- Recursively enumerable language
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Regular Language

10)In the formal definition of a deterministic finite state machine the number of tuples required is ***1 point***

- 4
- 5
- 6
- 7

No, the answer is incorrect.
Score: 0

Accepted Answers:
5

You were allowed to submit this assignment only once.

Previous Page End

Funded by

Government of India
Ministry of Human Resource Development

Powered by

Google