Assignment 12

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-12-09, 23:59 IST.

1) Why is it recommended to use single strand wires for breadboard prototyping?
   - Because single strand wires occupy lesser area on the circuit board
   - Because it is much cheaper than multi-strands
   - Because it is easy to insert in the breadboard
   - Because it can be soldered easily

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers:*
   - Because it is easy to insert in the breadboard

2) Why are copper pads coated with tin?
   - Tin does not oxidize as easily as copper and helps in soldering
   - To avoid any kind of current leakage
   - Tin is a better conductor than copper
   - None of these

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers:*
   - Tin does not oxidize as easily as copper and helps in soldering

3) Which of the following is the best method to increase stalk rate?
   - Increases the temperature of the container
   - Shake the container vigorously
   - Use Ferric Chloride of higher concentration
   - All of the above

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers: All of the above*

4) In which type of machine, the output depends on the current state as well as the input?
   - Mezch Machine
   - Moore Machine
   - Finite State Machine
   - None of these

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers: Finite State Machine*

5) The total number of states in a counter having 4 flip flops cannot be
   - 15
   - 17
   - 13
   - 10

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers:*
   - 17

6) Which of the following is part of the data path?
   - Multiplexer
   - Decoder
   - Latch
   - All the above

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers: All the above*

7) Which of the following can be programmed using Verilog-HDL?
   - LSTP433
   - CPLD
   - Intel Core i7
   - Field Programmable Gate Array

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers: Field Programmable Gate Array*

8) Which of the following is an essential component of a microcontroller ecosystem?
   - Reset
   - Clock
   - Power Supply
   - All the above

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers: All the above*

9) Wireless Power Transfer in the Wireless Powered Art Installation Project is using
   - Inductive coupling
   - Capacitive Coupling
   - Resistive Coupling
   - Microwave

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers: Inductive coupling*

10) How does a heat sink help in decreasing the heat dissipation of an IC?
    - Heat sink is made up of materials which are cooler
    - Heat sink increases the surface area in contact with the air
    - Heat sinks have fans to supply cool air to the IC
    - None of the above

   *No, the answer is incorrect.*
   *Score: 0*
   *Accepted Answers: Heat sink increases the surface area in contact with the air*