Assignment 9

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

1) During an ICHP analysis, the following items would not be considered as an event:
   - Increase in temperature
   - Increase in pressure
   - Release of hazardous substances
   - Impact of foreign components
   - Noise

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Noise

2) The "Shunt Tree analysis" can be used for multiple initiating events at a single time:
   - True
   - False
   - Can only be binary logic model
   - Does not work on an individual basis
   - Does not work on an individual approach
   - All of the above

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - All of the above

3) A tree event which cannot be subdivided further and forms the terminating point of the branch of the tree is called:
   - Top Event
   - Basic Event
   - Trigger Event
   - Priority event
   - Super event

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Basic Event

4) "Exclusive-OR" event is a type of:
   - Top event
   - Basic Event
   - Priority event
   - Trigger Event
   - Conditional event

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Conditional event

5) "Failure event" (circle or diamond symbol) is a type of:
   - Top event
   - Basic event
   - Priority event
   - Trigger event
   - Conditional event

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Basic event

6) The risk assessment strategy for a fault tree analysis does not include:
   - Physical redundancy of component
   - Software redundancy
   - Qualification
   - Inclusion

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Inclusion

7) Fail-safe position of a control valve placed in a reactor assures safety during:
   - Start of the chemical reaction inside the reactor
   - End of the chemical reaction inside the reactor
   - Whenever the pressure exceeds inside the reactor
   - Failure of control system
   - Loss of control system

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Loss of control system

8) If a pressure relief device is to be mounted with the inlet water line of a cooling system, this cooling system will be provided to cool down the vessel during an accident. Which kind of device should be installed:
   - Full Open control valve
   - Full Close control valve
   - Anyone
   - None

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Full Close control valve

9) If a control valve is to be installed in the inlet of the feed of a reaction vessel, and a controlled supply of the feed is required to eliminate the chances of reactor runaway, which kind of device should be installed:
   - Full Open control valve
   - Full Close control valve
   - Anyone
   - None

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Full Open control valve

10) The two parts of the bow-tie diagram represents:
    - Barrier and escalation
    - Prevention and barrier
    - Mitigation and barrier
    - Prevention and mitigation

   No, the answer is incorrect. Score: 6
   Accepted Answers:
   - Prevention and mitigation