Assignment 7

The due date for submitting this assignment has passed.

As per our record, you have not submitted this assignment.

Due on 2019-06-10, 23:59 IST.

1. The final line of defense against accidents i.e. to prevent accidents on the origin does not include
   A) Developing barrier process control
   B) Controlling the process with safety operating regime
   C) Prevention of occurrence of dangerous high pressure
   D) Installation of relief devices

   No, the answer is incorrect.
   Accepted Answers:
   - A) Developing barrier process control
   - B) Controlling the process with safety operating regime
   - C) Prevention of occurrence of dangerous high pressure
   - D) Installation of relief devices

2. A large liquid reaction is carried out to produce electricity. During reaction the amount of neutrons produced inside the reactor increased above the desired limit. The best way to control the reactor is
   A) To remove some amount of steel from the reactor
   B) To add compatible heat transfer medium to remove the excessive heat
   C) To insert the reactor inhibitor inside the reactor
   D) All of the above

   No, the answer is incorrect.
   Accepted Answers:
   - A) To remove some amount of steel from the reactor
   - B) To add compatible heat transfer medium to remove the excessive heat
   - C) To insert the reactor inhibitor inside the reactor
   - D) All of the above

3. The blow down of pressure relief valve is
   A) The maximum pressure after which the valve bursts
   B) The pressure to which the valve closes after releasing over pressure
   C) The maximum allowable working pressure minus the reactor
   D) The minimum allowable working pressure

   No, the answer is incorrect.
   Accepted Answers:
   - A) The maximum pressure after which the valve bursts
   - B) The pressure to which the valve closes after releasing over pressure
   - C) The maximum allowable working pressure minus the reactor
   - D) The minimum allowable working pressure

4. The over pressure of relief valve is
   A) The incremental increase in pressure over the set pressure
   B) The increase in pressure above the maximum allowable working pressure
   C) The increase in pressure inside the reactor above the holding limit
   D) The maximum allowable working pressure

   No, the answer is incorrect.
   Accepted Answers:
   - A) The incremental increase in pressure over the set pressure
   - B) The increase in pressure above the maximum allowable working pressure
   - C) The increase in pressure inside the reactor above the holding limit
   - D) The maximum allowable working pressure

5. Predetermined pressure at which the relief device under operating conditions begins to activate is called
   A) Safety Operating Pressure
   B) Maximum Allowable Working Pressure
   C) Accumulation
   D) All of the above

   No, the answer is incorrect.
   Accepted Answers:
   - A) Safety Operating Pressure
   - B) Maximum Allowable Working Pressure
   - C) Accumulation
   - D) All of the above

6. The operating pressure inside the vessel is usually taken
   A) 3% of MAXP
   B) 15% of MAXP
   C) 20% of MAXP
   D) 10% of MAXP

   No, the answer is incorrect.
   Accepted Answers:
   - A) 3% of MAXP
   - B) 15% of MAXP
   - C) 20% of MAXP
   - D) 10% of MAXP

7. The safety relief valve is a device which is used to protect the pressure
   A) Above the operating pressure
   B) Below the operating pressure
   C) Above the MAXP
   D) Below the MAXP

   No, the answer is incorrect.
   Accepted Answers:
   - A) Above the operating pressure
   - B) Below the operating pressure
   - C) Above the MAXP
   - D) Below the MAXP

8. The pressure at the outlet (discharge side) of the safety relief valve during relief process due to pressure existing in the downstream system is called as
   A) Relief Pressure
   B) Blow down
   C) Pressure
   D) Lift

   No, the answer is incorrect.
   Accepted Answers:
   - A) Relief Pressure
   - B) Blow down
   - C) Pressure
   - D) Lift

9. Coefficient of discharge is equal to the
   A) Ratio of actual discharge to the theoretical discharge
   B) Ratio of theoretical discharge to the actual discharge
   C) Ratio of actual discharge to the required discharge
   D) Ratio of theoretical discharge to the required discharge

   No, the answer is incorrect.
   Accepted Answers:
   - A) Ratio of actual discharge to the theoretical discharge
   - B) Ratio of theoretical discharge to the actual discharge
   - C) Ratio of actual discharge to the required discharge
   - D) Ratio of theoretical discharge to the required discharge

10. A chemical reaction is occurring in a closed reactor having pressure relief device to remove the excessive pressure. The gases produced in this reaction are nitrogen, carbon dioxide, and water oxide. If the relief valve is opened due to over pressure then the gas must be
    A) Directly vent off the atmosphere
    B) Passed through scrubber to remove toxic elements
    C) Passed through denitrator to completely remove the toxicity
    D) Passed through scrubber and then to the atmosphere

   No, the answer is incorrect.
   Accepted Answers:
   - A) Directly vent off the atmosphere
   - B) Passed through scrubber to remove toxic elements
   - C) Passed through denitrator to completely remove the toxicity
   - D) Passed through scrubber and then to the atmosphere