Question 1

Question Type: MultipleChoice

Probability of failure is normally expressed

Options:

A- Just as details

B- Mentioned in frequency

C- Cannot be measured

Answer:

B

Question 2

Question Type: MultipleChoice

Probability of failure analysis is made from

Options:

A- Loss of containment that occurs due to deterioration mechanism

B- Consequences of the failure

C- Done just with previous experience

D- All the above

Answer:

A

Question 3

Question Type: MultipleChoice

Potential hazards identified in a pha will often affect the

Options:

A- Probability of failure side of the risk equation.

B- Consequence of failure side of the equation

Answer:

A

Question 4

Question Type: MultipleChoice

In the event of a leak the potential failure of an isolation valve could

Options:

A- Increase the inventory

B- Decrease the inventory

C- No harm to inventory

Answer:

A

Question 5

Following are the non-inspection mitigation actions except one

Options:

A- Replacement or upgrade

B- Equipment redesign

C- Maintenance of strict controls on operating conditions

D- Risk management by monitoring the deterioration

Answer:

D

Question 6

Following are some of the recognized risks which cannot be managed by inspection alone except one

Options:

A- Equipment nearing retirement

B- Failure mechanisms (such as brittle fracture, fatigue) where avoidance of failure primarily depends on operating within a defined pressure/temperature envelope

C- Consequence-dominated risks

D- The suitability and current condition of the equipment within the current operating envelope will determine the probability of failure (pof) of the equipment from one or more deterioration mechanisms

Answer:

D

Question 7

The primary product of a rbi effort should be

A- An inspection plan for each equipment item evaluated

B- Mitigation plan for each equipment item evaluated

C- Residual risk assessment plan for each equipment item evaluated

Answer:

A

Question 8

Question Type: MultipleChoice

Is a risk management activity that may lead to risk reduction?

Options:

A- Inspection

B- Evaluation

C- Analysis

Answer:

A

Question 9

Question Type: MultipleChoice

The probability of failure, when coupled with the associated consequence of failure (cof) (see section 11) will determine _____associated with the equipment item,

Options:

A- Operating risk

B- Ranking

C- Residual risk

Answer:

A

Question 10

Question Type: MultipleChoice

The suitability and current condition of the equipment within the current operating envelope will determine the_____ of the equipment from one or more deterioration mechanisms.

Options:

A- Probability of failure (pot)

B- Consequence of failure

C- Total risk

D- Relative risk

Answer:

A

Question 11

Results from quantitative analysis logic models are validated by

Options:

A- Expert judgment

B- Inspection engineer

C- Maintenance engineer

D- Operations personnel

Answer:

A