

**\*\*\* EXAMINATION \*\*\***

**UNCERTAINTY**

1. **The elements that allows quantifying the strength**
  - a) of the conclusion are the elements of probability
  - b) of the conclusion are the elements of conductivity
  - c) of the conclusion are the elements of emissitivity
  - d) of the conclusion are the elements of reflectivity
2. **The uncertainty can be quantified by the**
  - a) mathematical concept of reflectivity
  - b) mathematical concept of emissitivity
  - c) mathematical concept of conductivity
  - d) mathematical concept of probability
3. **The concepts essential to the understanding of uncertainty**
  - a) includes distribution
  - b) includes standard deviation
  - c) includes correlation
  - d) All of the above
4. **The uncertainty referred to as stochastic uncertainty**
  - a) is the epistemic uncertainty
  - b) is the aleatory uncertainty
  - c) is the engineering uncertainty
  - d) is the subjective uncertainty
5. **The uncertainty that reduces through gaining additional**
  - a) information is a stochastic uncertainty
  - b) information is a statistical uncertainty
  - c) information is a epistemic uncertainty
  - d) information is a aleatory uncertainty
6. **Difficulties with uncertainty in fire safety engineering**
  - a) calculation start with the magnitude of the problem
  - b) calculation start with the quantitative methodology
  - c) calculation start with the paucity of data
  - d) All of the above

7. **The analysis use in assessing the consequences of uncertainty**
  - a) in data and in assumptions is the sensitivity analysis
  - b) in data and in assumptions is the parametric analysis
  - c) in data and in assumptions is the importance analysis
  - d) in data and in assumptions is the comparative analysis
8. **The technique used in evaluating the perceptions of risk**
  - a) tolerance is a sensitivity analysis
  - b) tolerance is a parametric analysis
  - c) tolerance is an importance analysis
  - d) tolerance is a comparative analysis
9. **Information is obtained on the effect of particular input on**
  - a) the value of the outcome criterion in sensitivity analysis
  - b) the value of the outcome criterion in parametric analysis
  - c) the value of the outcome criterion in importance analysis
  - d) the value of the outcome criterion in comparative analysis
10. **The analysis that points which of the uncertain input**
  - a) variables contributes most is the sensitivity analysis
  - b) variables contributes most is the parametric analysis
  - c) variables contributes most is the importance analysis
  - d) variables contributes most is the comparative analysis
11. **The practice and science of classification is**
  - a) taxonomy
  - b) monotony
  - c) proctology
  - d) practonomy
12. **Usually initiated in order to perform system change is**
  - a) failover
  - b) switchover
  - c) redundant
  - d) fall over
13. **Uncertainty is a broad and general term used to describe a**
  - a) kind of concepts including but not limited to variability
  - b) kind of concepts including but not limited to judgment
  - c) kind of concepts including but not limited to error
  - d) All of the above
14. **A junction between two different metals that produce a voltage**
  - a) is the thermocouple
  - b) is the thermostat
  - c) is the thermal inertia
  - d) is the thermodynamics

15. **Used to analyze the distribution pattern of a set of data**
- a) is the variability
  - b) is the indeterminacy
  - c) is the randomness
  - d) is the linguistic imprecision
16. **The inability to know what will happen in the future is**
- a) the variability
  - b) the indeterminacy
  - c) the randomness
  - d) the linguistic imprecision
17. **Frequency probability and Bayesian inference are two**
- a) branches of the confidence interval
  - b) branches of the descriptive statistics
  - c) branches of the standard deviation
  - d) branches of the inferential statistics
18. **Aleatory uncertainty is referred to as**
- a) randomness
  - b) stochastic uncertainty
  - c) statistical uncertainty
  - d) All of the above
19. **Epistemic uncertainty is referred to as**
- a) knowledge uncertainty
  - b) statistical uncertainty
  - c) stochastic uncertainty
  - d) randomness
20. **The measure of the variability or dispersion is**
- a) linguistic imprecision
  - b) standard deviation
  - c) confidence interval
  - d) randomness

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