Assignment 3

Due on 2020-10-07, 23:59 IST

1. The probability that a product, system, or service will perform its intended function adequately for a specified period of time, or will operate in a defined environment without failure is called
   A. Availability
   B. Punctuality
   C. Servicability
   D. Reliability

2. In the context of selection of connectors for an automated system, the effects due to “radiation” is an example of
   A. System
   B. Circuit
   C. Environmental
   D. Civil

3. The ability of the sensor to indicate the same output over a period of time for a constant input is called
   A. Error
   B. Repeatability
   C. Stability
   D. Precision

4. The ratio of change in output value of a sensor to per unit change in input value that causes output change is called
   A. Sensitivity
   B. Resolution
   C. Stability
   D. Precision

5. The effect of factors such as backlash of gears, Coulomb friction, and elasticity of materials may cause ________ error in the transducers
   A. Hysteresis
   B. Fluid
   C. Static
   D. Resolution

6. The product life cycle activities related to the philosophy, functionality and uniqueness of the product design is called
   A. Optimization
   B. Planning
   C. Analysis
   D. Synthesis

7. The study of motion of a system without directly considering the forces acting on the motion is carried out in discipline of mechanical engineering
   A. Kinematics
   B. Fluid mechanics
   C. Kinetics
   D. Continuum mechanics

8. Sheet metal rolling is an example of __________ forming process
   A. Advanced
   B. Primary
   C. Secondary
   D. Tertiary

9. Expandable molds are used in __________ type of casting process
   A. Gravity
   B. Sand mold
   C. Investment
   D. Progressive

10. Soldering is an example of __________ type of welding process
    A. Autogenous
    B. Heterogeneous
    C. Heterogeneous
    D. Homogeneous