Quality Management in the Imaging Sciences 6th edition Papp Test Bank

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MULTIPLE CHOICE

1. Which of the following is a pictorial representation of a frequency distribution?
   a. Pareto chart
   b. Fishbone chart
   c. Histogram
   d. Scatter plot

   ANS: C
   A histogram is a data display tool in the form of a bar graph that often plots the most frequent occurrence of a quantity in the center.

2. The range of variation around the mean is called
   a. variance.
   b. standard deviation.
   c. percentile.
   d. range.

   ANS: B
   The standard deviation is the range of variation or dispersion of a set of values surrounding the mean.

3. The number of items actually measured from a population is called a
   a. sample.
   b. data set.
   c. frequency.
   d. range.

   ANS: A
   A sample is the number of items actually measured from a population.

4. Which of the following terms best describes the average set of observations?
   a. Mean
   b. Median
   c. Mode
   d. Varian

   ANS: A
   The **mean** is the calculated average set of observations.

5. Which of the following terms best describes variables that have only two values or choices?
   a. Continuous variables
   b. Dichotomous variables
   c. Stochastic variables
   d. Statistical variables

   ANS: B

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Dichotomous variables are those variables being studied that have only two opposing choices.

6. A cause-and-effect diagram is also known as which of the following?
   a. Fishbone chart
   b. Pareto chart
   c. Trend chart
   d. Scatter plot

   ANS: A
   A **cause-and-effect diagram** is a causal analysis tool (also called a *fishbone chart* or *Ishikawa diagram*).

7. Which of the following terms best describes a chart that pictorially demonstrates whether key indicators are moving up or down over a given period of time?
   a. Histogram
   b. Pareto chart
   c. Trend chart
   d. Scatter plot

   ANS: C
   A **trend chart** (also called a *run chart* or *run-sequence plot*) pictorially demonstrates whether key indicators are moving up or down over a given period of time, on an ongoing basis.

8. Which of the following is not a tool for data presentation?
   a. Control charts
   b. Brainstorming
   c. Pareto charts
   d. Cause-and-effect diagrams

   ANS: B
   Brainstorming is a group process used to develop a large collection of ideas without regard to their merit or validity.

9. How many basic steps are involved in the creation of a TPM?
   a. 3
   b. 5
   c. 7
   d. 10

   ANS: B
   There are five basic steps to create a TMP.

10. A procedure to identify potential failure within a system is
    a. SWOT
    b. FMEA
    c. Six Sigma
    d. FOCUS-PDCA

    ANS: B
    A **Failure Mode and Effects Analysis (FMEA)** is a procedure for analysis of potential failure within a system.

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