

1. Which of the following is NOT a measure of central tendency?

- a) Mean
- b) Median
- c) Mode
- d) Range

Answer: d) Range

Explanation: The range is a measure of variability, not central tendency. It represents the difference between the maximum and minimum values in a dataset.

2. Which distribution is commonly used to model continuous data in statistical quality control?

- a) Binomial distribution
- b) Poisson distribution
- c) Normal distribution
- d) Exponential distribution

Answer: c) Normal distribution

Explanation: The normal distribution is widely used in statistical quality control to represent continuous data due to its symmetrical bell-shaped curve.

3. What does the Central Limit Theorem state?

- a) The mean of a sample approaches the population mean as the sample size increases.
- b) The variability of a sample decreases as the sample size increases.
- c) The distribution of sample means approximates a normal distribution regardless of the population distribution, given a large sample size.
- d) The median of a sample is equal to the population median.

Answer: c) The distribution of sample means approximates a normal distribution regardless of the population distribution, given a large sample size.

Explanation: The Central Limit Theorem states that as the sample size increases, the distribution of sample means will approach a normal distribution, regardless of the population distribution.

4. Which chart is commonly used for monitoring the number of defects per unit in a process?

- a) p-chart
- b) np-chart
- c) c-chart
- d) u-chart

Answer: c) c-chart

Explanation: The c-chart, or count chart, is used for monitoring the number of defects per unit in a process. It is appropriate when the number of defects can vary from unit to unit.

5. What does the "P" in the PDSA cycle stand for?

- a) Proceed
- b) Plan
- c) Process
- d) Probabilistic

Answer: b) Plan

Explanation: The PDSA cycle stands for Plan, Do, Study, Act. It is a systematic framework for continuous improvement in quality management.

6. Which control chart is used for monitoring the proportion of nonconforming items in a

sample?

- a) p-chart
- b) np-chart
- c) c-chart
- d) u-chart

Answer: a) p-chart

Explanation: The p-chart, or proportion chart, is used for monitoring the proportion of nonconforming items in a sample.

7. In statistical quality control, what does “u” stand for in the u-chart?

- a) Upper control limit
- b) Unit deviation
- c) Unit standard deviation
- d) Nonconformities per unit

Answer: d) Nonconformities per unit

Explanation: The u-chart is used for monitoring the number of nonconformities per unit in a process.

8. Which type of control chart is suitable for monitoring individual data points over time?

- a) p-chart
- b) R-chart
- c) np-chart
- d) c-chart

Answer: b) R-chart

Explanation: The R-chart, or range chart, is used for monitoring the variability of individual data points over time.

9. Which statistical quality control chart is used for monitoring the number of nonconformities in a sample of constant size?

- a) p-chart
- b) np-chart
- c) c-chart
- d) u-chart

Answer: b) np-chart

Explanation: The np-chart is used for monitoring the number of nonconformities in a sample of constant size.

10. What is the primary purpose of trial control limits in control charting?

- a) To establish the normal variation of a process.
- b) To identify points that may indicate a process shift or instability.
- c) To set the upper and lower specification limits.
- d) To determine the process capability index.

Answer: a) To establish the normal variation of a process.

Explanation: Trial control limits are initially set to help establish the normal variation of a process before stable control limits are determined.

11. Which type of control chart is used when the data can be categorized into discrete categories?

- a) R-chart

- b) s-chart
- c) Attribute control chart
- d) Variable control chart

Answer: c) Attribute control chart

Explanation: Attribute control charts are used when data can be categorized into discrete categories, such as pass/fail or conforming/nonconforming.

12. What is the purpose of the “Act” phase in the PDSA cycle?

- a) To analyze the results of the study phase.
- b) To make necessary changes based on the study phase findings.
- c) To implement the planned changes.
- d) To document the improvement process.

Answer: b) To make necessary changes based on the study phase findings.

Explanation: The Act phase in the PDSA cycle involves implementing changes based on the findings and results obtained during the study phase.

13. Which chart is used to monitor the variability of individual measurements within a sample?

- a) p-chart
- b) np-chart
- c) R-chart
- d) c-chart

Answer: c) R-chart

Explanation: The R-chart, or range chart, is used to monitor the variability of individual

measurements within a sample.

14. Which type of control chart is suitable for monitoring continuous data over time?

- a) p-chart
- b) c-chart
- c) Variable control chart
- d) Attribute control chart

Answer: c) Variable control chart

Explanation: Variable control charts are suitable for monitoring continuous data over time, such as measurements of length, weight, or time.

15. In statistical quality control, what does the "R" stand for in the R-chart?

- a) Range
- b) Rate
- c) Run
- d) Resistance

Answer: a) Range

Explanation: The R-chart is used to monitor the range, which represents the variability of individual measurements within a sample.

16. Which control chart is used for monitoring the number of nonconformities per unit in a process that can produce varying numbers of units?

- a) p-chart
- b) np-chart
- c) c-chart

d) u-chart

Answer: d) u-chart

Explanation: The u-chart is used for monitoring the number of nonconformities per unit in a process that can produce varying numbers of units.

17. What does the "Study" phase in the PDSA cycle involve?

- a) Implementing planned changes
- b) Analyzing the results of the study
- c) Documenting the improvement process
- d) Testing and observing the effects of planned changes

Answer: d) Testing and observing the effects of planned changes

Explanation: The Study phase in the PDSA cycle involves testing and observing the effects of planned changes to assess their effectiveness.

18. Which control chart is used for monitoring the number of nonconformities in a sample of constant size?

- a) p-chart
- b) np-chart
- c) c-chart
- d) u-chart

Answer: b) np-chart

Explanation: The np-chart is used for monitoring the number of nonconformities in a sample of constant size.

19. What does the "Do" phase in the PDSA cycle involve?

- a) Analyzing the results of the study phase
- b) Documenting the improvement process
- c) Implementing planned changes
- d) Testing and observing the effects of planned changes

Answer: c) Implementing planned changes

Explanation: The Do phase in the PDSA cycle involves implementing planned changes in the process or system.

20. Which control chart is used for monitoring the proportion of nonconforming items in a sample?

- a) p-chart
- b) np-chart
- c) c-chart
- d) u-chart

Answer: a) p-chart

Explanation: The p-chart is used for monitoring the proportion of nonconforming items in a sample.

Related posts:

1. Introduction of IC Engine MCQs
2. Combustion in SI engines MCQs
3. Combustion in CI Engines MCQs



4. Fuel MCQs
5. Supercharging & Turbo charging MCQs
6. Fundamental Aspects of Vibrations MCQs
7. Damped Free Vibrations: Viscous damping MCQs
8. Harmonically excited Vibration MCQS
9. Systems With Two Degrees of Freedom MCQs
10. Noise Engineering Subjective response of sound MCQs
11. Mechatronics Overview and Applications MCQs
12. REVIEW OF TRANSDUCERS AND SENSORS MCQs
13. MICROPROCESSOR ARCHITECTURE MCQs
14. Electrical and Hydraulic Actuators MCQs
15. SINGLE CONDITIONING MCQs
16. Dynamics of Engine Mechanisms MCQs
17. Governor Mechanisms MCQs
18. Balancing of Inertia Forces and Moments in Machines MCQs
19. Friction MCQs
20. Brakes MCQs
21. Introduction Automobile Fuels MCQs
22. Liquid alternative fuels MCQs
23. Gaseous Fuels MCQs
24. Automobile emissions MCQS
25. Emissions Norms & Measurement MCQs
26. Method study MCQs
27. Work measuremen MCQs
28. Job Contribution Evaluation MCQs
29. Human factor engineering MCQs
30. Display systems and anthropometric data MCQs

31. Quality Management MCQs
32. Quality Management process MCQs
33. Process diagnostics MCQs
34. Process improvement MCQs
35. Finite Element Method MCQs
36. Element Types and Characteristics MCQs
37. Assembly of Elements and Matrices MCQs
38. Higher Order and Isoparametric Elements MCQs
39. Static & Dynamic Analysis MCQs
40. Refrigeration & Cooling MCQs
41. Vapour compression system MCQs
42. Vapour absorption system MCQs
43. Psychometric MCQs
44. Air conditioning MCQs
45. Chassis & Body Engg MCQs
46. Steering System MCQs
47. Transmission System MCQs
48. Suspension system MCQs
49. Electrical and Control Systems MCQs
50. Emission standards and pollution control MCQs
51. Tribology and Surface Mechanics MCQs
52. Friction MCQs: Concepts and Analysis
53. Understanding Wear Mechanisms MCQs
54. Lubricants and Lubrication Standards MCQs
55. Nano Tribology MCQs
56. Machine Tools MCQs
57. Regulation of Speed MCQs

- 58. Design of Metal working Tools MCQs
- 59. Design of Jigs and Fixtures MCQs
- 60. Design of Gauges and Inspection Features MCQs
- 61. Production Systems MCQs
- 62. Work Study MCQs
- 63. Production Planning MCQs
- 64. Production and Inventory Control MCQs
- 65. Productivity MCQs
- 66. DESCRIPTIVE STATISTICS MCQs
- 67. INTRODUCTION TO BIG DATA MCQs
- 68. BIG DATA TECHNOLOGIES MCQs
- 69. Energy Management MCQs
- 70. Energy Audit MCQs
- 71. Material energy balance MCQs
- 72. Monitoring and Targeting MCQs
- 73. Thermal energy management MCQs
- 74. System Concepts MCQs
- 75. Management MCQs
- 76. Marketing MCqs
- 77. Productivity and Operations MCQs
- 78. Entrepreneurship MCQs
- 79. Introduction of MIS MCQs
- 80. Information systems for decision-making MCqs
- 81. System Design Quiz MCQs
- 82. Implementation, Evaluation and Maintenance of the MIS MCQs
- 83. Pitfalls in MIS Development MCQs
- 84. Data Science MCQs

85. Ethical Hacking MCQs
86. DBMS Normalization MCQs
87. Advanced Computer Architecture MCQ
88. Social Issues and the Environment MCQ
89. Field work mcq
90. Stacks MCQ
91. TREE MCQ
92. Introduction to Digital Communication MCQ
93. Introduction to Object Oriented Thinking & Object Oriented Programming MCQ
94. Transform Calculus MCQ
95. Concept of Probability MCQ
96. Software Design MCQ
97. Software Analysis and Testing MCQ
98. Multiprocessors MCQ
99. Introduction to Operating Systems MCQ
100. Software architecture models MCQ
101. Software architecture implementation technologies MCQ
102. Introduction to Swarm Intelligence, Swarm Intelligence Techniques MCQ
103. Neural Network History and Architectures MCQ
104. Wireless LAN MCQ
105. Mobile transport layer MCQ
106. Cryptography MCQ
107. Cryptographic MCQs
108. Clustering & Association Rule mining MCQ
109. Fundamentals of Agile Process MCQ
110. CNNs MCQ
111. Reinforcement Learning and Sequential Models MCQs

- 112. Computer Graphics Multimedia PYQ
- 113. Visualization MCQ
- 114. Multimedia MCQs
- 115. Organization and Knowledge Management MCQs
- 116. Telecommunications and Networks in Knowledge Management MCQs
- 117. Human Resource Management for rural India MCQs
- 118. Management of Rural Financing MCQs
- 119. IoT MCQs
- 120. INTRODUCTION Block Chain Technologies MCQs
- 121. Data in the cloud MCQs
- 122. Cloud Security MCQs
- 123. Review of Object Oriented Concepts and Principles MCQs.
- 124. Introduction to RUP MCQs.
- 125. Facet Model Recognition MCQs
- 126. Knowledge Based Vision MCQs
- 127. MQTT, CoAP, XMPP, AMQP MCQs
- 128. IoT MCQs: Platforms, Security, and Case Studies
- 129. Grammars MCQs
- 130. Push down Automata MCQs
- 131. DBMS Concepts & SQL Essentials MCQs
- 132. DESCRIPTIVE STATISTICS MCQs
- 133. Classification Algorithms MCQs
- 134. Pattern Recognition and Clustering MCQs
- 135. Web Development Essentials MCQs
- 136. HTML MCQs
- 137. C Programming Essentials Structures, Preprocessor, and Unions MCQs
- 138. Basic concepts of OOP MCQS

- 139. The Shell Basic Commands, Shell Programming MCQs
- 140. File System MCQs
- 141. Environmental Pollution mcqs
- 142. Social Issues and the Environment mcqs
- 143. Modulation Techniques mcqs
- 144. Feedback Amplifiers and Oscillators MCQs
- 145. Frequency Analysis of Discrete Time Signals mcqs
- 146. Data Communication mcqs
- 147. Satellite Communication & Polarization MCQs
- 148. Input Output and Peripheral Devices mcqs
- 149. Inverters & Cycloconverters Inverters MCQs
- 150. Microwave Engineering MCQs
- 151. Error Control Coding MCQs
- 152. Wireless Communication Essentials MCQs
- 153. IoT Technologies MCQS
- 154. Optical sources and detectors MCQs
- 155. Review of Cellular Networks MCQS
- 156. Image Restoration MCQs
- 157. Cathode Ray Tubes, Oscilloscopes, and Bridge Circuits MCQs
- 158. Logic Families and Semiconductor Memories MCQS
- 159. Network Theorems MCQS
- 160. Sampling, Modulation, and Multiplexing MCQs
- 161. RF Transmission Lines and Matching Techniques: MCQs
- 162. Tacheometry MCQS
- 163. Simple Stress and Strains MCQs
- 164. Laminar Flow MCQs
- 165. Construction equipments MCQs

- 166. Valuation MCQS
- 167. Urban Planning MCQs
- 168. Renewable Energy MCQs
- 169. Finance and Accounting MCQs
- 170. Indeterminate Structures-I MCQS
- 171. Tunnels MCQS
- 172. Advanced Waste-water treatment MCQS
- 173. Structural Engineering MCQs
- 174. Design of Slabs MCQS
- 175. Irrigation water requirement and Soil-Water-Crop relationship MCQS
- 176. Structural Joint MCQs
- 177. Cost effective construction techniques and equipments MCQs
- 178. Fluid Machines MCQs
- 179. Impact analysis MCQs
- 180. Basis of Structural Design and Connection Design MCQS
- 181. Hydrology MCQs
- 182. Design of R.C. Bridge MCQs
- 183. Seismic control of structures MCQs
- 184. Influence on Serviceability and Durability MCQs
- 185. Introduction to stress in machine component MCQs
- 186. Rotary Fans, Blowers and Compressors MCQs
- 187. Power transmitting turbo machines MCQs
- 188. Water turbines MCQS
- 189. Rotary Fans, Blowers and Compressors MCQs
- 190. Thermal and Mass Transfer MCQs
- 191. Thermal Radiation & Boiling/Condensation MCQs
- 192. Fossil fuel steam stations MCQs

- 193. Nuclear Power Station MCQs
- 194. Linear system and distribution models MCQs
- 195. Supply chain (SCM) MCQs
- 196. Engineering Development MCQs
- 197. Materials Science MCQs
- 198. Alloys and Materials MCQs
- 199. Theories of failures MCQs
- 200. Columns & struts MCQs