(MCQ) on Total Quality Management {semester master}

Thursday, August 13, 2020 12:12 PM

1	_ is not a process tools for TQM systems.
A. process flow a B. histograms Control charts	nalysis
Correct answer: (C	
	perate with "six sigma quality" over the short term are se long-term defect levels below defects per es (DPMO).
A. 2 B. 2.4 C. 3 D. 3.4	
Correct answer: (D 3.4	
3. Inspection, scra	p, and repair are examples of
A. internal costsB. external costsC. costs of dissatD. societal costs	isfaction
Correct answer: (A internal costs)
4	_ are used in six sigma
A. black belt B. green belt C both black belt D. none of the Ab	•
Correct answer: (C both black belt and	•
5. Customers are p	orimarily concerned with
	n, courtesy, and credibility of the sales person courtesy, and security of the sales person

c. Competence, responsiveness, and reliability of the sales person

D. Communication, responsiveness, and cleverness of the sales person
Correct answer: (A) Communication, courtesy, and credibility of the sales person
 6. Assured quality is necessary for building customer confidence. a. correct B. correct to some extent C. correct to great extent D. incorrect
Correct answer: (A) correct
7 is about supplying customers with what they want when they want it.
A. JUT B. HET C. JAT D. JIT Correct answer: (D) JIT
8 are the areas that will be covered by the organization's processes process areas B. product Areas C. private areas D. preset areas
Correct answer: (A) process areas
9. All of the following costs are likely to decrease as a result of better quality except
A. customer dissatisfaction costs B. inspection costs C. maintenance costs D. warranty and service costs
Correct answer: (C) maintenance costs
10. "Quality is defined by the customer" is
A. An unrealistic definition of quality B. A user-based definition of quality C. A manufacturing-based definition of quality

Correct answer: (B) A user-based definition of quality
11. TQM stands for
A. Total Quality Management B. Total Quantity Management C. Total Qualitative Management D. To question management
Correct answer: (A) Total Quality Management
12. After E.deming, who is considered to have the greatest impact in quality management?
A. Kauro Ishikawa B. Joseph M. Juran C. W.E. Deming D. Genichi Tagucchi Correct answer: (B) Joseph M. Juran
13. Deming's 4 step cycle for improvement is
A. plan, do, check, act B. schedule, do, act, check C. do, act, check, monitor D. plan, control, act, sustain Correct answer: (A) plan, do, check, act
14. In Six Sigma, a is defined as any process output that does not meet customer specifications
A. error B. cost C. quality D. defect
Correct answer: (D) defect

D. A product-based definition of quality

15. Plan-do-study-act cycle is a procedure to
A. Overall improvement B. Continuous improvement C. Permanent improvement D. Immediate improvement
Correct answer: (B) Continuous improvement
16. Quality practices must be carried out
A. at the start of the project B. throuout the life of the project C. at the end of the project D. no neeed to carry out quality practices
Correct answer: (B) througut the life of the project
17. are the charts that identify potential causes for particular quality problems.
A. Control Chart B. Flow chart C. Cause and Effect Diagram D. Parato chart
Correct answer: (C) Cause and Effect Diagram
18. Quality circles work best if employees are initially trained in
Group dynamics Motivation principles Communications D. All of the three.
Correct answer: (D) All of the three.
19. Quality Trilogy includes
A. Quality planning B. quality improvement C. quality control D. All the three Correct answer: (D) All the three
20. production issues should be addressed early

A. correct	
B. correct to some extent	
c. correct to great extent	
D. incorrect	
Correct answer: (A) correct	
21. inspection is part of the	
A. quality control	
B. Quality Planning	
C. Quality improvement	
D. Quality circle	
Correct answer: (A)	
quality control	
22. QFD stands for	
A. Quantity for deployment	
B. Quality for deployment	
C. Quality function deployment	
D. Quality for decision	
Correct answer: (C)	
Quality function deployment	
23. reliability is the degree to which a unit of equipment performs its intended function und	dei
for of time.	10
A CONTRACTOR OF THE CONTRACTOR	
specified conditions; specified period	
B. any condition; specified period	
C. specified conditions; all periods D. any condition; any period	
Correct answer: (A) specified conditions; specified period	
specified conditions, specified period	
24. Kaizen is a process, the purpose of which goes beyond simple	
productivity improvement.	
A. weekly	
B. daily	
C. monthly	
D. annual	
Correct answer: (B)	
daily	
25. elements of quality management system are	
A consortional atmostrate	
A. organizational structure B. responsibilities	
C. procedures	
D. alline three	

B. responsibilities C. procedures D. all the three Correct answer: (D) all the three
27. "Poka-voke" is the Japanese term for
A. CardB. Fool proofC. Continuous improvementD. Fishbone diagram
Correct answer: (B) Fool proof
28. Based on his 14 Points. Deming is a strong proponent of
 A. inspection at the end of the production process B. an increase in numerical quotas to boost productivity C. looking for the cheapest supplier D. training and knowledge
Correct answer: (D) training and knowledge
29. A fishbone diagram is also known as a
A. cause-and-effect diagram B. poka-yoke diagram C. Kaizen diagram D. Taguchi diagram
Correct answer: (A) cause-and-effect diagram
30. According to Deming most of the problems are related to systems and it is the responsibility of the management to improve the systems
B. correct C. correct to great extent D. Taguchi
Correct answer: (A) correct

Correct answer: (D) None of the three.
none of the three.
35. Identify the cost not likely to reduce as a result of better quality.
 A. Maintenance costs B. Inspection costs C. Scrap costs D. Warranty and service costs
Correct answer: (A) Maintenance costs
36. Costs of dissatisfaction, repair costs, and warranty costs are elements of cost in the
d ISO 9000 Quality Cost Calculator D Process Chart Correct answer: (A)
Taguchi Loss Function
37. Kaizen is a Japanese term meaning
A. continuous improvement B. Lust-in-time (JIT) C. a fishbone diagram D. setting standards
Correct answer: (A) continuous improvement
38. Quality management includes forming and directing a team of people to achieve a qualitative goal within an effective cost and time frame that results in
a project completed in shortest possible time. a product or service that conforms to the required specifications. C. an award-winning product that brings public recognition to the project an innovative project that establishes qualification of the project team
Correct answer: (B) a product or service that conforms to the required specifications.
39. establishing measurements based on customer needs for optimizing product design is known as
A. Quality planning B. quality improvement

c. quality control
D. Quality planning (Actual answer is Quality planning roadmap)

c. quality control D. Quality planning (Actual answer is Quality planning roadmap)	7
Correct answer: (D) Quality planning (Actual answer is Quality planning roadmap)	Marie and an artist of the second
40. DMAIC is	
A. develop, multiply, analyze, improve, check B. define, muliply, analyze, improve, control C. define, measure, analyze, improve, control D. define, manufacture, analyze, improve, control	
Correct answer: (C) define, measure, analyze, improve, control	
41. Quality fulfills a need or expectation that is:	
A. Explicitly stated B. implied C. Legally required D. All of the above	
Correct answer: (D) All of the above	
42. The taste of burgers across all McDonald outlets should be same. This is an	n example of
A. Sensory critical to quality Characteristic B. Physical critical to Quality Characteristic C. Time Orientation critical to Quality Characteristic D. None of the above	
Correct answer: (A) Sensory critical to quality Characteristic	
43. Check Sheet is used during stage of DMAIC.	
A. DefineB. MeasureC. AnalyzeD. Improve	
Correct answer: (B) Measure	
is the set of activities that ensures the quality levels of services are properly maintained and that supplier and customer quality issues resolved.	f products and s are properly
A. Quality Assurance B. Quality Planning C. Quality Control	

D. Quality Management
Correct answer: (A) Quality Assurance
45. Presence of after every stage of DMAIC allows for review of project and incorporation of suggestions.
A. Review gateB. Toll gateC. Decision gateD. None of the above
Correct answer: (B) Coll gate
46. The Toyota Production System is based on two pillars namely and
A. Kaizen, Six SigmaB. Lean, Six SigmaC. Just in Time, JidokaD. Just in Time, Kaizen
Correct answer: (C) Just in Time, Jidoka
47. Which of the following is not a target of Total Quality Management:
A. Customer Satisfaction B. Reducing manpower C. Continuous Cost Reduction D. Continuous Operational Improvement
Correct answer: (B) Reducing manpower
49. A diagram shows the location of defects in any unit. This diagram is used in the analyse step of DMAIC.
A. AffinityB. RelationsC. Defect ConcentrationD. Scatter
Correct answer: (C) Defect Concentration
50. The is used to identify what might go wrong in a plan under development.
A. Parcio Chart PDPC C. Arrow Diagram D. Matrix Diagram
Correct answer. (B)

D. Matrix Diagram
Correct answer. (B) POPC
51. The defect concentration diagram can be used in the stage of the DMAIC.
A. Define B. Measure C. Analyze D. Improve Correct answer: (C) Analyze
52. The taste of the burger can be categorized as good or bad This is an example of which type of data: A. Variable B. Attribute C. Cannot be determined D. None of the above Correct answer: (A) Variable
53. For a given sample size (n) and number of defects acceptable ©, the Average Total Inspection (of units) should with increase in N (lot size). Increase B. Decrease C. Remain Constant D. None of the above
Correct answer: (A) Increase 54. The pattern of continuous movement in one direction in a control chart is
termed as:
A. Mixture B. Cyclic Pattern Tend D. Stratification Correct answer: (C) Trend
55. Juran's quality management philosophy is based on three pillars namely planning, control and

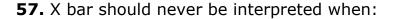
- A. Implementation
- **B.** Improvement
- c. Monitor
- D. Design

Correct answer: (B) Improvement

56. For a point in the control chart to be out of control, it must lie

- A. Above UCL or Below LCL
- B. Between Central Line and LCL
- c. Between Central Line and UCL
- p. None of the above

Correct answer: (A)
Above UCL or Below LCL



- A Chart shows out of control points
- B. X bar chart shows out of control points
- c. The process mean is not known
- D. None of the above

Correct answer: (A)

R chart shows out of control points

58. The average run length can be defined as:

- A. The beta risk for an x bar chart
- B. The expected number of samples taken before any shift in process quality is detected
- c. The number of samples used in the construction of x bar chart
- D. The number of items per sample

Correct answer: (B)

The expected number of samples taken before any shift in process quality is detected

60. A major assumption for p chart is that all units produced are

- A. Independent
- B. Dependent
- c. None of the above
- D. Cannot be determined

Correctanswer: (A)

Independent

61. Apart from Poisson distribution, another distribution that can be applied to events data is:
 A. Normal Distribution B. Geometric Distribution C. Lognormal Distribution D. Continuous Distribution
Correct answer: (B) Goometric Distribution
63. The dimension of reliability is concerned with:
A. How easy it is to repair the product. B. How long does the product last. C. Will the product do the intended job. D. How often does the product fail
Correct answer: (D) How often does the product fail
64. From a consumer perspective quality is determined by while from a producers perspective quality is determined by

A. Variability, Cost B. Cost Price C. Price Cost D. Cost, Variability
Correct answer: (C) Price, Cost
65. The probability distribution function corresponding to tossing of a coin will be a:
A. Probability Density function * Probability Mass function C. Probability Measurement function D. Probability Cumulative Function
Correct answer: (B) Probability Mass function
66. While the first generation of Six sigma focused on, the third generation of six sigma focused on
 A. Variability reduction, creating value B. Variability reduction, improved business performance C. Creating value, Improved business performance D. None of the above
Correct answer: (A) Variability reduction, creating value
67. The standard normal distribution has mean= and standard deviation= A. 1,0 B. 0,1 C. 0,0 D. 1,1 Correct answer: (B) 0,1
68. A chart can be used to identify the most frequently occurring defect.
B. Ishikawa C. Histogram D. Scatter
Correct answer: (A) Pareto
69. The main aim of OFD is to

69. The main aim of QFD is to
B. Lower cost C. Reduce errors D. Reduce supplier defect
Correct answer: (A) Listen to the voice of customer
70. Average Total Inspection is defined as:
A. Average of rejected lots and accepted lots B. Average number of units inspected per lot C. Average of rejected Lots D. Average of accepted Lots
Correct answer: (B) Average number of units inspected per lot
1. R charts are used for controlling of a process.
A. Central TendencyB. DispersionC. None of the aboveD. Both a and b
Correct answer: (B) Dispersion
72. If the Average outgoing Quality is plotted against the Incoming Fraction Defective, the Average Outgoing Quality Limit is the point.
A. Highest B. Lowest C. Middle D. Cannot be determined
Correct answer: (A) Highest
74. The x bar chart monitors:
A. Between sample variability B. Within sample variability C. Instantaneous variability D. Natural variability
Correct answer: (A) Between sample variability

	75. In case someone is interested in process standard deviation, he should construct the chart.
A	A. X bar B. R chart C. S chart D. None of the above
	Correct answer: (C) S chart
	76. If data for MR chat shows non-normality, it is better to determine the control limits for the individuals control chart based on the of the correct underlying distribution.
	A. Percentage Percentiles C. Rank
	D. Mean Correct answer: (B) Percentiles
	78. When the number of defects is low, which of the following is true:
4	A. We should use c or u chart B Most samples will have non-zero defects Create a time between occurrence control chart D. None of the above Correct answer: (C) Create a time between occurrence control chart
	80. If variability of a product decreases, its quality
	A. remains unchanged B. decreases C. increases D. may increase or decrease Correct answer: (C)
	increases
	81. The focal point of all quality control should be:
	A. Price focusB. Cost FocusC. Customer FocusD. Manufacturing Focus
	Correct answer: (C) Customer Focus

82. The key process input variables (KPIV) and key process output variables are developed

82. The key process input variables (KRIV) and key process output variables are developed during the phase.
A. Define B. Analyze Measure D. Improve
Correct answer: (C) Measure
84. Which of the following statement is false:
 A. Important step of strategic quality management is identification of those dimensions in which the organization will compete B. Selection of suppliers should be based on quality, schedule, and cost, rather than on cost alone C. All of the individuals in the organization must have an understanding of the basic tools of quality improvement D. Manufacturing Unit should be the unit focusing on Quality Improvement among all units in an organization
Correct answer: (D) Manufacturing Unit should be the unit focusing on Quality Improvement among all units in an organization
85. Cause and Effect Diagram can be used in the and and
A. Define, Measure B. Analyze, Control C. Analyze, Improve D. Define, Improve
Correct answer: (C) Analyze, Improve
86. Which of the following is false regarding when acceptance sampling is useful:
A. When testing is destructive B. When 100% inspection cost is very low C. When there are potentially serious product liability risk D. When 100% inspection is not technically feasible
Correct answer: (B) When 100% inspection cost is very low
87. Let po be the incoming fraction defective and p1 be the outgoing fraction defective (Assume both p1 and p0 is greater than 0). If rectifying inspection is performed then:

A. Po<p1
B. P1<p0
C. None of the above
D. Cannot be determined

Correct answer: (B) P1 <p0< th=""></p0<>
88. A company wants to measure the length of a fan as a part of its quality control exercise. The type of data collected will be:
A. Variable Attribute C. Cannot be determined D. None of the above
Correct answer: (B) Attribute
89. If only causes of variation are present, the output of a process forms a distribution that is table over time and is predictable.
A. AssignableB. Non-RandomC. NaturalD. Cannot be said
Correct answer: (C) Natural
92. The basic assumption of calculating the control limits based on average sample size (for a p chart) will from/as those previously observed.
A. Greatly differ B. Will be exactly the same C. Not greatly differ D. None of the above
Correct answer: (C) Not greatly differ
93. The g-chart is the control chart for:
A. Average number of eventsB. Total number of eventsC. Mean number of eventsD. None of the above
Correct answer: (B) Total number of events
94. Attribute charts may be used when:
 A. Several characteristics can be jointly measured B. When one particular quality characteristic is of importance C. Specific information like process mean is required D. None of the above
Correct answer: (A) Several characteristics can be jointly measured

	97. Inspection of incoming/outgoing items is an example of
	 A. Prevention Cost B. Appraisal Cost C. Internal Failure Cost D. External Failure Cost
	Correct answer: (B) Appraisal Cost
	98. Four basic characteristics of an optimal process are:
	 A. Economy, efficiency, control, quality B. Quality, Improvement, efficiency, productivity C. Economy, efficiency, productivity, cost D. Economy, efficiency, productivity, quality
	Correct answer: (D) Economy, efficiency, productivity, quality
	99 diagram is used for identifying potential relationship between two variables.
	A. Pareto B. Ishikawa C. Histogram Control Con
84	Correct answer: (D) Scatter
5	100. Lets for acceptance sampling should be and Homogeneous, Large B. Heterogeneous, Small C. Homogeneous, Small D. Heterogeneous, Large
	Correct answer: (A) Homogeneous, Large