Chapter 02 Measuring Performance in Operations and Value Chains

1. In the context of the value chain model, when "information replaces assets," the costs increase.

TRUEFALSE

(A) True

(B) False
Answer: (B)
2. In the context of the analytics in operations management, it costs three to five times more to keep an existing customer than acquire a new customer.
(A) True
(B) False
Answer: (B)
3. Actionable performance measures should be meaningful to a company's management and should provide the basis for decisions at the strategic level in an organization.
(A) True
(B) False
Answer: (B)
4. With interlinking models, managers can objectively make internal decisions that impact external outcomes.
(A) True
(B) False
Answer: (A)
5. In the context of the value chain model, fewer resources are needed to achieve performance goals when "information replaces assets."
(A) True
(B) False
Answer: (A)

6. Quality measures the degree to which the output of a process conforms to the management's expectations and requirements.
(A) True
(B) False
Answer: (B)
MULTICHOICE
7. Dextron, a privately owned computer technology company, provides a wide range of customized laptops to suit the needs of students, corporate professionals, and small business owners. In this case, Dextron's ability to provide a wide range of customized laptops to suit its customers' needs best describes
(A) volume flexibility
(B) design flexibility
(C) budget variance
(D) manufacturing yield
Answer: (B)
8 is the ability to provide goods and services to customers with minimum waste and maximum utilization of resources.
(A) Operational efficiency
(B) Volume flexibility
(C) Reliability
(D) Sustainability
Answer: (A)
9. Key measures of innovation and learning include
(A) supply-chain performance
(B) processing time
(C) percentage of new products developed
(D) the variance around the average time
Answer: (C)

10. is the act of quantifying the performance of organizational units, goods and services, processes, people, and other business activities.		
(A) Measurement		
(B) Forecasting		
(C) Fulfillment		
(D) Litigating		
Answer: (A)		
by Fancy Trends Inc. for the year		150,000
Cost Incurred	Direct Labor Cost Energy Cost Raw Material Cost	\$60,000 \$5,800 \$42,000
Based on the given data, the prod	luctivity of Fancy Trends Inc. for t	
(A) 1 pair/USD		
(B) 1.39 pairs/USD		
(C) 2 pairs/USD		
(D) 2.46 pairs/USD		
Answer: (B)		
12. In the context of the types of innovation and learning?	performance measures, which of t	he following is a measure of
(A) Patent applications		
(B) Employee retention		
(C) Product recalls		
(D) Labor productivity		
Answer: (A)		
13. In the context of the triple bo governance.	ttom line,measures inclu	ide corporate ethics and
(A) environmental sustainability		
(B) social sustainability		
(C) economic sustainability		

(D) political sustainability
Answer: (B)
14. Which of the following is a quality performance measure at an operational level?
(A) Customer ratings of goods and services
(B) Customer retention
(C) Service representative courtesy
(D) Product recalls
Answer: (C)
15. In the context of the triple bottom line (TBL), which of the following measures includes the number of ethical violations?
(A) Responsiveness
(B) Service quality
(C) Social sustainability
(D) Customer retention rate
Answer: (C)
16. In the context of the scope of business and operations performance measurement, which of the following measures is an example of an innovation and learning performance measure?
(A) Employee satisfaction
(B) Flow processing or cycle time
(C) Manufacturing yield
(D) Product-related litigation
Answer: (A)
17. measures the degree to which the output of a process meets customer requirements.
(A) Learning
(B) Innovation
(C) Variability (D) Overlity
(D) Quality

Answer: (D)

- **18.** ____ include environmental measures such as energy consumption and recycling and other resource conservation activities.
- (A) Operation efficiency measures
- (B) Innovation and learning measures
- (C) Sustainability measures
- (D) Financial measures

Answer: (C)

- **19.** According to research, which of the following is a key dimension that customers use to assess service quality?
- (A) Operational efficiency
- (B) Flexibility
- (C) Empathy
- (D) Queue time

Answer: (C)

20. A paint manufacturing company has three factories located in France, Germany, and Spain. The productivity data of the factories are as follows:

Factory Location	Amount of Paint Produced(US Gallons)	Total Input Cost (USD)
Spain	4,600,000,000	\$5,250,000
Germany	5,500,000,000	\$5,250,000
France	4,000,000,000	\$3,500,000

Based on the productivity analysis of all the factories, the productivity of the factory in:

- (A) Germany is lower than that of the factory in Spain.
- (B) Spain is higher than that of the factory in France.
- (C) France is higher than that of the factory in Spain.
- (D) France is lower than that of the factory in Germany.

Answer: (C)

- **21.** Which of the following performance perspectives in the balanced scorecard model includes measures such as productivity, flow time, and asset utilization?
- (A) The financial perspective
- (B) The customer perspective

(C) The innovation	n and learning perspective
(D) The internal p	perspective
Answer: (D)	
22. Measures of_	focus on an organization's people and infrastructure.
(A) goods and ser	vice design flexibility
(B) customer and	market
(C) service quality	y
(D) innovation and	d learning
Answer: (D)	
	following performance perspectives in the balanced scorecard model measures the at a business provides to its shareholders?
(A) The financial]	perspective
(B) The internal p	perspective
(C) The learning p	perspective
(D) The customer	perspective
Answer: (A)	
24. The innovation such as:	on and learning perspective in the balanced scorecard model includes measures
(A) return on inve	estment, economic value added, and shareholder value.
(B) number of cooservices.	operative customer-company design initiatives and percent of sale from new
(C) training hours	s per employee, hiring process effectiveness, and revenue per employee.
(D) service-quality	y levels, design and demand flexibility, and asset utilization.
Answer: (C)	
25. is the ra	atio of the output of a process to the input.
(A) Productivity	
(B) Flexibility	

(C) Variabi	lity
(D) Reliabi	lity
Answer : (A)
26	is the willingness to help customers and provide prompt recovery to service upsets.
(A) Respon	siveness
(B) Empath	ny
(C) Assura	nce
(D) Reliabi	lity
Answer : (A)
performance	is based on a set of cause-and-effect linkages between internal and external ce, and in this fashion, defines the key performance measurements on which services should focus.
(A) Service	-Profit Chain model
(B) value c	hain model
(C) balance	ed scorecard
(D) Malcoli	m Baldrige Performance Excellence program
Answer : (A)
	ne required to ramp up to an increased production output level in response to a surge in f a product is a measure of
(A) budget	variance
(B) volume	flexibility
(C) produc	t recalls
(D) service	upset
Answer : (B)
29. Airline	revenue per passenger mile and hotel revenue per full-time employee are examples of
(A) reliabil	ity measures

(B) flexibility measures
(C) sustainability measures
(D) productivity measures
Answer: (D)
30. Which of the following is a financial performance measure at an organizational level?
(A) Cost of quality
(B) Revenue and profit
(C) Budget variance
(D) Labor and material costs
Answer: (B)
31. In the context of the triple bottom line (TBL), which of the following is a performance measure of economic sustainability?
(A) Fines for environmental violations
(B) Corporate ethics and governance
(C) Revenue from new goods and services
(D) Measures of perceived value
Answer: (A)
32. In an assembly line of a factory that makes gears, it takes fifteen minutes to complete a drilling operation using a lathe. The duration of this operation is called
(A) delay time
(B) queue time
(C) processing time
(D) standard time
Answer: (C)
33. The quantitative modeling of cause-and-effect relationships between external and internal performance criteria is called
(A) productivity

(B) operational efficiency
(C) interlinking
(D) sustainability
Answer: (C)
34. Which of the following performance perspectives in the balanced scorecard model includes the percent of sale from new goods and services?
(A) The financial perspective
(B) The innovation perspective
(C) The learning perspective
(D) The customer perspective
Answer: (D)
35. The ability of an organization to respond quickly to changes in the quantity and type of demand is called
(A) utility
(B) reliability
(C) demand variability
(D) volume flexibility
Answer: (D)