1. Choose, among the following trends, the ones that contribute to the popularity of manufacturing

MULTIPLE CHOICE

	planning and control	l system (MP&CS)) in industry.	
	(1). Public d	awareness regardin	ng Sustainab	ility
	(2). Manufa	cturing and resour	ce planning	(MRP) developments
	(3). The sup	ply chain revolutio	on	
	(4). Laws en	ncouraging Remani	ufacturing	
	a. (1) and (4)		c.	(1), (3) and (4)
	b. (2)		d.	None of the above
	ANS: C	PTS: 1		
2.	Choose, among the Planning and Control	_	s, the ones th	nat do not fit into the typical Manufacturing
	(1). Master	Production Schedu	ıling (MPS)	
	(2). Aggregi	ate Planning		
	(3). Manufa	cturing resource p	lanning (MI	RP II)
	(4). Enterpr	ise resource planni	ing(ERP)	
	a. (1) and (4)		c.	(1), (3) and (4)
	b. (4)		d.	(3) and (4)
	ANS: D	PTS: 1		
3.	Select the activities not commonly associated with a manufacturing planning and control system (MP&CS).			
	(1). Establis	hing the annual sa	ıles goals	
	(2). Establis	hing capacity		
	(3). Develop	oing detailed mater	ial flows	
	(4). Determ	ining product dema	and	
	a. (1)		c.	(2)
	b. (1) and (4)		d.	(3) and (4)
	ANS: A	PTS: 1		

4.	Among the following relationship cases, select the customer-supplier relationship you think is the healthiest.			
	a. The customer is closely integrated with the systems of a supplier who deals in commodities.			
	b. The customer involves the supplier of a core component in its product design process.			
	c. The customer uses its information gathered from closely working with an important supplier to reduce the supplier's selling price.			
	d. The customer frequently uses reverse auctions in most of their purchase decisions.			
	ANS: B PTS: 1			
5. With the popularity of outsourcing and global logistics, the manufacturing environment has se several changes. Among the following choices, select the changes that align with this current manufacturing environment.				
	(1). Shorter product life cycles			
	(2). MRPII is being viewed as the system of the future			
	(3). An increase in fabrication value added			
	(4). Popularity of customer driven supply chains			
	a. (1) c. (1), (3) and (4)			
	b. (1) and (4) d. All of the above			
	ANS: B PTS: 1			
6.	Which of the following is not a well-known response by manufacturing to the changes in the current manufacturing environment?			
	a. Adaptive manufacturing			
	b. Statistic Process Controlled (SPC) manufacturing			
	c. Just in Time manufacturing			
	d. Lean manufacturing			
	ANS: B PTS: 1			
7.	Choose the proper historical sequence of developments in manufacturing planning and control starting from the left.			
	a. Adaptive->Lean->Flexible->Push c. Push->Pull->Flexible->Adaptive			
	b. Pull->Flexible->Push->Adaptive d. Lean->Push->Flexible->Adaptive			
	ANS: C PTS: 1			

8.	Which of the following choice are not included as one of the 5 elements of Lean?			
	(1). Efficient flows			
	(2). Specify value			
	(3). Push philosophy			
	(4). Quality perfection			
	a. (1) and (3)	c. (1), (2) and (4)		
	b. (3)	d. All of the above		
	ANS: B PTS: 1			
9. Below are statements regarding either push or pull manufacturing. Select the correct ones.				
	(1). Pull manufacturing commonly results in relatively low inventory levels			
	(2). Comparatively, planning for pull national forecasting efforts	nanufacturing is more dependent of the company's		
	(3). It is easier for problems with the m manufacturing environment	nanufacturing process to surface in a push		
	(4). Pull manufacturing is associated v	vith JIT and lean manufacturing philosophies		
	a. (1)	c. (1), (2) and (4)		
	b. (2) and (3)	d. (1) and (4)		
	ANS: D PTS: 1			
10.	Below are statements regarding either push or	pull manufacturing. Select the incorrect ones.		
	(1). Well implemented pull systems hav	re high levels of customer service		
	(2). Pull uses short and flexible produc	tion runs compared to push		
	(3). Push uses short and flexible production runs compared to pull			
	(4). Push manufacturing typically has	longer lead times		
	a. (2)	c. (3)		
	b. (2) and (4)	d. (1) and (4)		
	ANS: C PTS: 1			
11.	Which of the following is not a term used to in	dicate one of the typical manufacturing environments?		
	a. Engineering to order (ETO)	c. Assemble to order (ATO)		
	b. Make to ship (MTS)	d. Make to stock (MTS)		

	ANS: B PIS: I				
12.	For markets with demand variable effective. Fill in the blanks.	ility, the _	manufacturing environment is most		
	a. High/Engineering to order (ETO)	c.	High/Assemble to order (ATO)		
	b. Low/Make to ship (MTS)	d.	High/Make to stock (MTS)		
	ANS: A PTS: 1				
13.	In order to make products with a relative degree of high complexity, which manufacturing environment will be most effective?				
	a. Assemble to order (ATO)	c.	Assemble to Stock (ATS)		
	b. Make to stock (MTS)	d.	Make to Order (MTO)		
	ANS: A PTS: 1				
14.	Which of the following environments is be	est suited	for Process Manufacturing?		
	a. Engineering to order (ETO)	c.	Engineering to Stock (ETS)		
	b. Make to stock (MTS)	d.	Make to Order (MTO)		
	ANS: B PTS: 1				
15. There are 7 types of wastes identified by the lean philosophy. Some of the type is defective units, and Fill in the blanks.					
	a. Overproduction/Under-processing	c.	Transportation/Motion		
	b. Under-processing/Transportation	d.	None of the above		
	ANS: C PTS: 1				
16.	The manufacturing concepts of JIT and Le		been originally developed by companies in the nen popularized internationally.		
	a. Automobile/Germany	c.	Automobile/Japan		
	b. Furniture/Swaziland	d.	Electronics/Japan		
	ANS: C PTS: 1				
17.	The Assemble to order (ATO) environment is characterized by and				
	a. Standard products/Stable forecasts				
	b. High customization/inaccurate forecas	sts			
	c. Tailored unique products/Stable foreca	asts			

	d. Customization/Modular product architectu	are	
	ANS: D PTS: 1		
18. The Make to order (MTO) environment is characterized by and			
	a. High customization/inaccurate forecasts		
	b. Standard products/Stable forecasts		
	c. An engineering/Unique products		
	d. Customization/ Modular product architect	ure	
	ANS: A PTS: 1		
19.	19. AMT. Inc.'s sales revenue for this quarter is \$2,000,000. It incurred \$1,200,000 in total costs. The total asset of the company is \$6,000,000. What the return on assets (ROA)?		
	a. 25.43%	c. 7.75%	
	b. 5.50%	d. 13.33%	
	ANS: D PTS: 1		
20.	AMT. Inc.'s net income for this quarter is \$500 Estimate the firm's total asset to the closet pos	0,000. The publicized return on assets (ROA) is 34.5%. sible.	
	a. \$1,500,000	c. \$2,450,000	
	b. \$1,450,000	d. \$2,005,500	
	ANS: A PTS: 1		
SHOF	RT ANSWER		
1.	Describe the goal of the manufacturing planning	ng and control system (MP&CS) in a paragraph.	
	ANS: Read about MP&CS		
	PTS: 1		
2.	Describe in your own words what a customer-	driven manufacturing philosophy is.	
	ANS: Read about MP&CS		
	PTS: 1		

3.	Describe in your own words what a healthy customer-supplier relationship looks like.	
	ANS: Read about supply chain relationships	
	PTS: 1	
4.	Draw a graph of a typical product life cycle.	
	ANS: A basic underlining concept	
	PTS: 1	
5.	Define the Lean Philosophy.	
	ANS: Read about lean manufacturing in chapter 1 and 7	
	PTS: 1	
6.	In your own words, describe an Assemble to Order (ATO) environment with a minimum of one example.	
	ANS: Read about Manufacturing Environments	
	PTS: 1	
7.	What is the difference between Make to stock (MTS) and Make to order (MTO) environments?	
	ANS: Read about Manufacturing Environments	
	PTS: 1	
8.	What is the manufacturing environment base associated with Lot-size manufacturing technology?	
	ANS: Read about Manufacturing Environments	
	PTS: 1	
9.	Describe the 5 steps for implementing lean techniques.	

ANS:

Read about lean manufacturing in chapter 1 and 7

PTS: 1

10. List 4 of the 7 types of lean waste.

ANS:

Read about lean manufacturing in chapter 1 and 7

PTS: 1