QUIZ # 02 MGT-613

PRODUCTIONS & OPERATIONS MANAGEMENT

INSTRUCTIONS:

You are required to put answers in the following format. Solutions not following this format will be marked as 'ZERO'.

1. a	11.
2. b	12.
3. c	13.
4. d	14.
5.	15.
6.	16.
7.	17.
8.	18.
9.	19.
10.	20.

QUESTIONS:

- 1. Which one of the following is the overall objective of product and service design?
 - a) Customer satisfaction and variety
 - b) Reliability and variety
 - c) Quality and reliability
 - d) Customer satisfaction and profitability
- 2. Which one of the following statements is true about OSHA?
 - a) To safeguard against potential hazards
 - b) To develop cost effective processes
 - c) To implement legal standards
 - d) To carry out implication of manufacturability and fitness
- 3. Which one of the following is the most significant disadvantage of standardization?

	a)	Frozen designs
	b)	Interchangeable parts
	c)	Reduced variety
	d)	Customized parts
4.	Which	one of the following is the final stage of product life cycle?
	a)	Growth
	b)	Decline
	c)	Maturity
	d)	Planning
5.		is the bringing together of engineering design and
	manuf	acturing personnel early in the design phase.
	a)	Reverse engineering
	b)	Concurrent engineering
	c)	Manufacturability
	d)	Serviceability
6.	Robustness of a product is related with the probabilit failure.	
	a)	Directly
	•	Inversely
		Linearly
	d)	Positively
7.	Which one of the following mathematical expressions can be used to comavailability?	
	a)	(MTBF)/ (MTBF+MTR)
	-	(MTBF)/ (MTBF-MTR)
	c)	(MTR)/ (MTBF+MTR)
	d)	(MTR)/ (MTBF-MTR)
8.	-	luct 'A' is specified to work well up to 30 degree Celsius temperature and umidity. What would these specifications represent?
	a)	Reliability factor
	b)	Standard conditions
	c)	Normal operating conditions
	d)	Standard operating procedure

9. Which o	one of the following is a curve showing failure rate over time?
	Cost curve
b)	Bath tub curve
•	Fish bone diagram
d)	Reliability curve
	quency of capacity choice decisions is influenced by all of the following
factors	EXCEPT:
a) :	Stability of demand
•	Technological changes
c) (Competitive forces
d) (Cost factor
	one of the following refers to the maximum output that a firm can e under ideal conditions?
a)	Design capacity
•	Effective capacity
c) (Capacity planning
d)	Utilization rate
12. The pro	cess selection should take into account all of the following EXCEPT:
a) (Capacity planning
•	Design of work systems
,	Production forecasts
d) :	Selection of technology

13. The type of processing structure that is used for producing discrete products at

14. The type of processing structure that is used to produce gasoline, chemicals,

higher volume is:

c) Batchd) Job Shop

and steel is known as.

a) Job Shopb) Batch

c) Assembly Line

a) Continuous Flowb) Assembly Line

- d) Continuous Flow
- 15. In which of the following layouts, work stations are arranged according to the general function they perform without regard to any particular product?
 - a) Product
 - b) Process
 - c) Fixed-position
 - d) Storage
- 16. Which one of the following is the correct order of layout types from low volume/high variety to high volume/low variety?
 - a) Fixed position, process, cell, product
 - b) Fixed position, cell, process, product
 - c) Fixed position, process, product, cell
 - d) Process, fixed position, cell, product
- 17. Which one of the following statements is NOT correct about cycle time?
 - a) It represents daily operating time divided by desired production
 - b) It is the maximum allowable time at each work station
 - c) It determines the time often items take to roll off in assembly line
 - d) It is the time required to complete a product from start to finish
- 18. What would be the required cycle time for a process that operates 9 hours daily with a desired output of 300 units per day?
 - a) 0.03 minutes
 - b) 1.8 minutes
 - c) 2700 minutes
 - d) 33.33 minutes
- 19. What would be the output capacity if an assembly line operates for 7 hours per day with a cycle time of 2.0 minutes?
 - a) 210 units per day
 - b) 3.5 units per day
 - c) 0.004 units per day
 - d) 14 units per day
- 20. Which one of the following is TRUE about work sampling?
 - a) It describes individual human motions that are used in a job task

- b) It involves determining the length of time it will take to undertake a particular task
- c) It involves determining the amount of time a worker spends on various activities
- d) It providing standard times for micro motions such as reach, move and release

GOOD LUCK!