Seat Number: - BM 21037.

Duration: 2 1/2 Hrs

Marks:- 75

Note:- 1) All questions are compulsory.

2) Figures to the right indicate maximum marks.

Q.1.A) State True or False: (CO1, CO2, CO3)

(8M)

- 1) Philip Crosby formulated PPCA cycle. (R) T
- 2) Productivity & efficiency are same. (Apply)
- 3) Productivity can be improved by standardizing processes. (Evaluate) T
- 4) Inventory management techniques can make or break your business. (Analyse) T
- 5) Purchasing consists of sourcing & procuring. (Apply) T
- 6) Purchasing is primarily a clerical activity. (Evaluate)
- 7) Visibility does not form a part of good layout. (R)
- 8) Simplification is opposite of Diversification. (Apply)

Q.1.B) Match the following: (CO1, CO2, CO3) (Apply)

(7M)

Group A	Group B			
1) Automation	A) Flexible manufacturing system 4			
2) Dam construction	B) Procurement 6			
3) Sourcing is part of	C) Environment friendly design & production			
4) used for moving units loads horizontally & vertically	d) Selective criteria seasonally 3			
5) SOS	E) Stationary layout			
6) TQM	F) Fork lift trucks			
7) ISO 14000	G) Customer focus 2,			
	H) Elimination of Human Intervention 5			
	I) Environmental management			

Q.2. Answer the following: (CO1, CO2) (Either A&B or C&D)	(15M)
A) Explain intermittent & continuous production system. (Evaluate)	(8M)
B) What are the principles of a Good layout.(Analyse)	(7 M)
OR	
(C) State importance of purchase management. (Evaluate)	(8M)
(D) What are the factors affecting product design. (Analyse)	(7M)
Q.3. Explain the following: (CO1, CO3) (Either A&B or C&D)	(15M)
A) State the importance of material handling systems. (Evaluate)	(8M)
B) Write a note on WOQ. (R, Analyse)	(7M)
OR	
C) Explain SERVOAL & what are the service quality dimensions. (Evaluate)	(8M)

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D) (i) Determine the multifactor produc	tivity for the	combined input	or the labour	
& machine time using the following. (A	.pply)			(3M)
Labour- 1500 RS				
Material- 500 RS				
Overheads- 3000 RS			13 14 1	
Output is 10000 units.				
(ii) Following information refers to ped	estal fans. (A	apply)		(4M)
Annual demand- 36000 units				
Unit price of pedestal fan- RS 4000	30			
Ordering cost- RS 500 per order				
Inventory carrying cost- 25%				
Calculate EOQ.				
Q.4. Answer the following: (CO2, CO3) (Either A&B or C&D) (15M)				
A) Evaluate the need & importance of quality management. (Evaluate)				(8M)
B) What are quality circles. State its cha	aracteristics ł	penefits & limitat	ons. (U, Apply)	(7M)
	-OR		and reactions	<u> </u>
C) Explain Philip Crosby's philosophy	of quality. (F	Remember)		(8M)
D) What is TQM, State its characteristics. (Analyse)			(7M)	
Q.5. Write short notes: (Any 3) (CO1, CO2, CO3)			(15M)	
A) 6 Sigma (R)	, , ,			
B) Ishikawa Fish Bone Theory (Apply)			hy to by the	
C) Factors affecting quality (Evaluate)	1		Total month	
	nd)			
D) Classification of products (Understan	iiu)		174 1	
E) Types of Layout (Evaluate)				