

DURATION: - 2½ hrs

64705424

SEAT NO. _____

MARKS:- 75

- Note: - (1) All questions are compulsory.
 (2) Figures to the right indicate full marks
 (3) Answer to each question must be on a new page

- Q.1 a) **State True or False** CO1,2,3-R/U/AP 8M
- A) The principal activity in all production operation is to inform input with suitable process into output that satisfy consumer wants
 - B) Product design does not include the design of services
 - C) It is more important for a production facility to be near the potential market than for a service facility
 - D) Line layout is also called as product layout
 - E) Material can be stacked in any manner
 - F) Productivity and efficiency are same
 - G) Phillip Crosby formulated PDCA cycle
 - H) An aesthetics refers to as to product looks
- Q.1 b) **Match the following** CO1,2,3-R/U/An/AP 7M

Colum A		Colum B	
A) Quality circle	I	Stationary layout	
B) TQM	II	Deming cycle	
C) Intermittent production	III	Assurance & empathy	
D) Ergonomics	IV	Selective Criteria Seasonality	
E) Dam construction	V	Customer focused organization	
F) PDCA	VI	Highly skilled workers	
G) Service quality dimension	VII	Adaptability & flexibility	
	VIII	Group voluntary activity	
	IX	Human factor consideration	
	X	Conveyors	

- Q.2.1) What are the functions of a production manager CO1-A 8M
- 2) Discuss steps in new product development CO1-U 7M
- OR**
- 3) What is product design what are the characteristics or factors influencing product design CO1-U 8M
- 4) Discuss steps in new product development CO1-R 7M
- Q.3.1) Discuss centralised and decentralised purchasing with their merits and demerits CO2,3-R 8M
- 2) What are the different steps in purchasing cycle CO2,3-U 7M
- OR**
- 3) Explain concept of EOQ CO2-R/AP 8M
- 4) Define quality discount factor affecting quality CO2-R 7M
- Q.4.1) What are the different product quality dimension CO3-U 8M
- 2) Explain Ishikawa fish bone diagram CO3-R 7M

OR

- 3) What is your name thinking explain 3 M'S. 7M
- 4) a) Annual demand for a product is 48000 units. Delivery lead time is 2 months company policy is to keep a safety stock equal to 400 units to guard against stock out calculate reorder level CO3-App 4M
- b) Calculate partial and total productivity CO3-App 4M
- | | |
|------------------|------------------------|
| Output 500000 | Raw materials 1,90,000 |
| Labour 75,000 | Electricity 25,000 |
| Capital 1,00,000 | Other Misc. Exp 10,000 |
- Q.5) **Write Short Note (Any 3)** 15M
- 1) Intermittent V/S continuous production system CO2,3-R
- 2) Malcolm Bridge Quality Award CO1,2,3-R/U
- 3) Deming's 14 principle
- 4) Types of products
- 5) Total quality management
