b) ABC

Marks:75 Time: 21/2 hrs. All questions are compulsory with internal options. Note: 2. Figures to the right indicate full marks. 3. Draw a neat diagram wherever necessary. 01 (A) Fill in the blanks with the correct answer from the alternatives given below. (80)(Attempt any 8) (1)Productivity = _____. a) Input/output c) Output - Input b) Output/Input d) Input - output (2) defines quality in terms of the social loss, loss to producer and consumer. a) Kepner c) Taguchi b) Deming d) Tregor (3)The input involved in production process are: materials, machine, ____and capital. a) money c) land b) method d) equipment (4)FMCG Fast moving consumer goods are examples of _____ production system. a) process c) project b) job d) mass Building a bridge is an example of _____ production system. (5) a) process c) project b) job d) mass (6)____ means procurement of goods and services from some external agencies. a) Inventory c) Management b) Purchasing d) Production ___ means determining the shape, standard & pattern of the product. (7)c) Product Sale a) Product Design b) Product Process d) Product Planning is not a key element of production planning. (8) a) Scheduling c) Employee training d) Quality Control b) Inventory management (9)views quality as a function of the entire enterprise not of any department of product. a) Cost of Quality c) Quality Improvement b) Holistic Quality Management d) Kaizen (10) refers to the quantity ordered to be purchased at the lowest total cost. a) EOQ c) XYZ

d) LMN

| | (B) | State whether the following statements are true or false. (Attempt any 7) | (07) |
|-----|------|--|------|
| | (1) | Production is the ratio between what is produced to what is required to produce it. | |
| | (2) | Construction of the building is project type production. | |
| | (3) | Productivity and efficiency are different. | |
| | (4) | Masaaki Imai introduced the concept of "Kaizen" in 1986. | |
| | (5) | Product is anything that can be able to meet the needs and wants of target customers. | |
| | (6) | Lean thinking is also called Toyota Production System (TPS). | |
| | (7) | The location decision falls under long term planning. | |
| | (8) | ISO stands for Indian Organisation for Standardisation. | |
| | (9) | Six Sigma quality is achieved when long-term defect levels are below 3.4 defects per million opportunities. | |
| | (10) | Material management is concerned with the planning, identification, procuring, storage, receiving & distribution of materials. | |
| Q.2 | (a) | Explain the principles of a good product layout. | (07) |
| | (b) | Explain the different classifications of products. | (08) |
| | | OR | |
| Q.2 | (c) | Elaborate in detail intermittent and continuous production management systems. | (15) |
| Q.3 | (a) | Explain in brief any four inventory control techniques. | (08) |
| Q.o | (b) | Write a note on Economic Order Quantity (EOQ). | (07) |
| | (-, | OR . | |
| Q.3 | (c) | Explain the objectives of materials management. | (07) |
| | (d) | Following information refers to pedestal lamp: Annual demand = 500,000 units Unit price of a pedestal lamp= Rs. 8,000 Ordering cost = Rs. 2000 per order Inventory Carrying cost = 25% Find the EOQ. | (08) |

Q.4 (a) Calculate Partial & Total Productivity of the following:

(15)

| Output | 8,00,000 | Raw Material | 2,00,000 |
|---------|----------|---------------------|----------|
| Labour | 75,000 | Electricity | 25,000 |
| Capital | 4,00,000 | Other Misc. Exp. | 12,000 |

OR

(07)Q.4 (b) Elaborate on the factors affecting quality. (80)(c) Enlist and explain the key principles of TQM in detail Q.5 (a) What is Deming's application prize? Explain its criteria. (07)(b) Elaborate on the benefits of ISO 9000. (80)OR Q.5 (c) Write short notes on (Attempt any 3) (15)(1) SERVQUAL (2) Just in time method (JIT) (3) Lean thinking (4) New product development process (5) DMAIC ---X---