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Answer any FIVE Questions All Questions carry equal marks

1. (a) Define MIS? What are the Advantages of MIS?  
(b) What is the difference between data and information?
2. State the procedure for effecting change without resistance
3. (a) Explain the concepts of programmed and non-programmed decisions with suitable examples.  
(b) In a large engineering company which deals with a few thousand items of inventory, explain how the decision rule can be programmed for initiating purchase action automatically. You may use the following parameters. Lead time for delivery for the  $i$  th item -  $L_i$  (days)  
Re-order quantity - (EOQ)  $I$  (units)  
Daily demand -  $D_i$  days  
Minimum stock -  $m_i$   
( for  $I = 1$  to  $N$ )
4. With reference to each of the following systems, state
  - (a) system objectives;
  - (b) source of inputs
  - (c) destination of outputs
  - (d) Output generated and
  - (e) decisions taken thereon.
    - i. Purchase order system
    - ii. Operations scheduling system
5. Compare and contrast conceptual Schema and External Schema
6. What do you understand by top-down and bottom up design? Explain with suitable example.
7. What is a form? Explain in detail how to develop forms for data collection and information Dissemination?
8. "Preliminary Investigation to arrive at the exact statement of the problem is vital for the success of MIS development" Elucidate.

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