

IV B.Tech II Semester Regular Examinations, Apr/May 2006
MANAGEMENT INFORMATION SYSTEMS
(Common to Electronics & Instrumentation Engineering, Electronics &
Control Engineering and Electronics & Telematics)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. The president of one of the nation's largest food manufacturers and packagers recently declared, "Our information system gives us the edge we need over our competitors". Describe ways in which an information system could provide a competitive edge for this company. [16]
2. State the procedure for effecting change without resistance [16]
3. Discuss the various facets of MIS planning details with the help of the Planning cycle chart [16]
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 [8+8]
5. Determine information sources for designing the system. [16]
6. Discuss the information requirements related to a sub-system in a banking system. [16]
7. What are the major steps involved in MIS implementation discuss in brief [16]
8. Explain the importance of communication between various people involved in developing of MIS? And explain with a simple example how the communication gap will affect the system performance. [16]

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1. (a) Marketing forecasts form the basis for Production Scheduling Activity. Determine the parameters that go into this linkage process given that the marketing forecast information is generated on the basis of linear trend projections of past data and that production scheduling is synchronous with such forecasts.
(b) Human Resource Management System is of growing importance in many organizations. Illustrate by means of a chart the broad frame work of such a system and the utility of the outputs generated by it. [16]
2. List out the factors and explain how they affect job attitudes. [16]
3. "Total System View is the need of the hour" Explain this with respect to the following aspects.
(a) The reasons for adopting a piece meal approach to MIS in the past and the expected future trend in favour of total system planning
(b) The MIS planning required for achieving a total systems view including MIS objectives, strategic planning and project planning [8+8]
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 [8+8]
5. Write data flow oriented structured system design. [16]
6. Discuss the various software tools used in structured design. [16]
7. What is the importance of documentation in MIS implementation? And explain the steps in documenting MIS "Manual and computer-Based. [16]

8. What are the causes of problems of MIS implementation? How would you attempt to solve it? [16]

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1. (a) Define MIS? What are the Advantages of MIS?
(b) What is the difference between data and information? [8+8]
2. State the procedure for effecting change without resistance [16]
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) Q_i (units)
Daily demand - D_i days
Minimum stock - m_i
(for $i = 1$ to N)
[8+8]
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 [8+8]
5. Compare and contrast conceptual Schema and External Schema [16]
6. What do you understand by top-down and bottom up design? Explain with suitable example. [16]
7. What is a form? Explain in detail how to develop forms for data collection and information Dissemination? [16]

8. “Preliminary Investigation to arrive at the exact statement of the problem is vital for the success of MIS development” Elucidate. [16]

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1. (a) What are the key issues in the information systems?
 (b) What are the challenges in the study of management information system? [16]
2. Should systems be designed to fit the people in the organization or should the people be required to adapt to the systems? What inferences can you draw from your conclusion? [16]
3. (a) Explain the meaning of decision assisting information systems and illustrate its relevance to non programmed decision making.
 (b) Describe with the help of a chart the concept of an integrated manufacturing information system and state how the outputs of such a system help in the providing assistance to non-programmed decision making. [8+8]
4. "What if" querying by a senior level decision maker has become a very common problem to be addressed by a MIS specialist. Conceptualise the methodology for devising such a system from the following parameters.
 (a) Decision alternatives A_j ($j = 1$ to n)
 (b) States of Nature S_i ($i = 1$ to m)
 (c) (r_{ij}) is the Net revenue matrix for the i th state and j th alternative
 (d) $r_{ij} = F(a_{ij}, b_{ij}, c_{ij})$ where a_{ij} , b_{ij} and c_{ij} are the parameteric casual variables for the i th state and the j th alternative. [4+4+4+4]
5. Discuss clearly the concept prototyping [16]
6. Explain the four principal sources of information for the design of the MIS. [16]
7. What is the importance of training for operational personnel? And here should particular attention is required in training? [16]
8. What is a constraint? As a manager of the company what type of constraints you have to face during development? Discuss. [16]
