

# Score More ...



We Simplify the subject

## System Analysis & Design

### Ready for Board/ University Exams

#### Index

1. System: Introduction and Definition
  2. Types of System
  3. Characteristics of System
  4. Elements of System
  5. System Analyst, Duties
  6. Role of System Analyst
  7. Introduction to SDLC
  8. Phase I: Area Selection / Project Selection
  9. Phase II: Overall Analysis
  10. Phase III Gross Design
  11. Phase IV: Master Development Plan
  12. Phase V: System Analysis and Design
  13. Phase VI: System Implementation
  14. Phase VII: System Maintenance
  15. Feasibility Report
  16. Guidelines for System design
  17. System Testing in detail
  18. Tools of structured analysis
    - Data Flow Diagram
    - Data Dictionary
    - Decision Table
    - Decision Tree
    - Structured English
  19. Pros and cons of Structured Analysis Tools
  20. Advantages and disadvantages of Interview
  21. Documentation in Detail
  22. Types of documentation
  23. System Security and Privacy
  24. System And Software Controls
  25. System Failure and Recovery
  26. Hardware and Software Selection
  27. Types of Files
  28. Batch processing system
  29. On-Line processing
  30. Real time processing
  31. Office Automation System
  32. Types of File Organization
  33. Selection of File Organization (factors for external storage device)
  34. Indexing techniques
    - Cylinder-surface indexing
    - Hashed Indexing
  35. Programming: Program Development Steps
  36. Modular Programming
  37. Coupling and cohesion
  38. HIPO and IPO charts
  39. Structured programming
  40. Software controls
  41. Information System
  42. Qualities of Information
  43. Information system and its types
  44. Public and Private Information system
  45. Formal and informal information system
  46. Data Processing Vs. Information Processing
  47. Information system life cycle
  48. Value of Information
  49. Management through the information life cycle: Create, Review, Edit, Manage, Dist.
  50. Decision Support System
  51. Management Information System
    - Evaluation and growth of MIS
  52. Operational elements of MIS
  53. Knowledge work system
  54. Seven levels/ scales of Knowledge work
  55. Knowledge worker
  56. Pyramid and charts of MIS
  57. Transaction processing system [TPS]
  58. Office Automation tools
  59. Expert system
  60. Knowledge Based System
  61. Artificial Intelligence (AI)
  62. Tools for analysis, design, planning, and scheduling of a system
    - CASE tool
    - Entity Relationship Diagram [ERD]
    - Data Action Diagram
    - Interaction Relationship Chart [IRC]
    - State Transition Diagram [STD]
    - PARIS Model
    - Entity Life Histories [ELH]
    - Entity Correspondence Diagram [ECD]
    - Grid Charts
    - Gantt Chart
    - PERT and CPM
    - Simulation
  63. Normalization
  64. OR Models
  65. Payroll Systems
  66. Sales Management System
  67. Inventory Control System
- #### Networking
68. Data Communication
  69. Transmission Media
  70. Communication control devices
  71. Types of Computer Networks
    - LAN, WAN, TAN, CAN, HAN
  72. Network Topology
    - Bus, Star, Ring, Tree, Hybrid, Mesh
  73. Internet
  74. Protocol
  75. TCP/IP, FTP, UUCP
- #### Solved Problem
76. Decision table
  77. Decision table
  78. Decision Tree
  79. Data Dictionary
  80. DFD (Student Registration System)
  81. DFD (Quiz)
  82. Decision Table
- Question Bank