Unit 1

1. Define systems. Also illustrate types of systems giving examples.

2. Explain the role of information systems in an organization. Also differentiate between information systems and information technology. Write examples of Information systems being used at your college.

3. Define hierarchical, network and relational databases along with their merits and demerits.

4. Explain what you understand by system design. Also describe the factors considered during designing output.

5. Describe the various stages or phases involved in developing system using system development approach.

6. Write a note on :
   a. Waterfall Model
   b. Spiral Model

7. Explain the 2 tiers and 3 tier architecture and point the difference among these two.

8. Discuss the concept behind OOAD

9. Create a Data Flow Diagram for Payroll Processing and Food Ordering System? With the help of above DFDs' explain what is a Data flow diagram ?

10. Categorize DBMS on the basis of data model. List advantages and disadvantages of each model.

11. Write a note on :
    a. Client –Server Architecture
    b. E-R Diagram

12. Discuss the concept behind system analysis following its step by step process.

13. Describe various structured analysis tools used for documenting system specifications.

14. Distinguish between Waterfall model and iterative model.

15. Write a note on any 2:
    a. Prototyping Model
    b. Hybrid Model
    c. Agile Model

16. You have been hired by a college to develop a software solution for library management. Explain various steps of SDLC you will follow to develop the same.

17. What are the different levels of Management? Explain the information need at various levels.

Unit 2

1. What is MIS? Briefly explain its classification based on hierarchy and general enterprise support.

2. Write a note on :

   a. Characteristics of MIS

   b. Activities performed by MIS

3. Discuss the efficient role played by an Office Automation system in a modern enterprise.

4. Describe the concept of a Transaction Processing System along with the diagram

5. Explain the importance of MIS. How it caters present organizational needs.

6. Discuss the roles of TPS in an organization. Also elaborate the types of TPS.

7. You have started the distribution of FMCG companies at Raipur , how office automation system will help to reduce work load and what are the various office automation tools you would use ?

8. The Punjab Government has successfully implemented an internet based Executive Support systems. The web based ESS has ensured improves connectivity and fast disposal of work. The system saved Punjab govt. from spending unreasonable amount of time to collect, compile and communicate information. The system has different modules to effectively monitor projects and schemes affecting general public. It has also emerged as internet office portal for most of the Punjab state Govt. Offices. The system has enabled officers and various state Govt. Departments to exchange message on pending references, files and announcements. Additionally the ESS has citizen facilitating module which gives access to various important data related to village directory and latest economic surveys.

   Question:

   What are the potential benefits which can also be added in web based ESS to improve the image of public sector office and to ensure good governance?

9. Explain ESS, its features and advantages.

10. Write a note on:

    a. CRM

    b. SCM

11. Classify MIS on the basis of Managerial functions of an organization Explain in brief HRIS & MKIS.

12. Distinguish between ESS and DSS giving examples.

Unit 3

1. Elucidate the capabilities of a decision support system. Illustrate few of its functional applications in an enterprise.

2. Explain TPS and how it works as a backbone of data for the organization.

3. Write a detailed note on need and importance of Expert system in present business scenario.

4. Why it is logical to organize It applications by functional areas , explain with the help of suitable diagrams

5. Discuss the benefits of using exert system at large organizations.

6. Define MIS. Discuss the capabilities and components of MIS

7. Write a note on Manufacturing Information system

8. Define ERP system. Discuss its importance and limitation.

9. Draw an information system for a marketing manager and describe its inputs, outputs and processing elements.

10. Explain in detail application of MIS in airline industries.

Unit 4

1. Explain Herbert Simon Model for Decision Making and write about the capabilities of DSS.

2. Differentiate MIS & DSS and explain how DSS works?

3. "Proper application of decision making tools increases productivity, efficiency and effectiveness leading to competitive advantage." Justify the use of DSS in organizations.

4. A mobile company is developing mobile billing system . Company is offering more than one mobile to a customer. The mobile company offers facilities like music on demand, internet, alerts and messages, electricity bill payment etc. Customer can choose facilities he wants. Customers can pay bill either in cash, using credit or through ECS. The bill shows details about tariff, facility charges and rent. As a design analyst, design a system having

   i)   Input screen for application for new mobile number

   ii)   Format of pending bill report

   iii)   Format of service wise customer report.

5. Explain the various processes of MIS using Library Management system and Banking system as a case study.

6. Discuss the concept of structured and unstructured problems. Justify the answers using examples.

Unit 5

1. Business firms invest heavily on information system. Comment

2. What are the contemporary issues faced by the organization in using information systems.

3. How strategic information system helps to configure the value chain of an organization?

4. Discuss the reasons for globalization and what are the possible threats of using global information system and how organizations can secure themselves.

5. Take example of your choice and explain how use of information system has transformed the business.

6. Discuss the issues in information systems for achieving operational excellence and customer intimacy.

7. Using Michael Porter's 5 forces model describe how business can use information system to apply competitive strategies.

8. It is argued that there is no universal information system that can fit all the organizations. That is information system must be custom fit to an organization. Comment.