1. (a) What are the functions of Controller of Certifying Authority as per the Information Technology Act, 2000?
(b) What do you mean by EFT? List any four benefits of EFT.
(c) What is test pack? Explain the uses of test pack in Information System Audit.
(d) What are the limitations of using ERP system in an organization?

(5 marks each)

Attempt all parts of either Q. No. 2 or Q. No. 2A

2. (a) How does information system play an important role in business management? Explain.

(4 marks)

(b) List the names of any four input devices of a Computing System. Briefly describe about Optical Character Recognition (OCR).

(4 marks)

(c) Briefly explain any four characteristics database system that distinguishes the database approach with file-based approach.

(4 marks)

(d) Distinguish between Batch Processing and Time Sharing.

(4 marks)
2A. Distinguish between the following:

(i) Primary Memory and Secondary Memory

(ii) Analytic Databases and Operational Databases

(iii) Tactical Management and Operational Management

(iv) E-Commerce and M-Commerce.

(4 marks each)

3. (a) Briefly explain the objectives of making Information Technology Act, 2000 of India.

(b) What are the requirements for handling protected data? Write any four.

(c) Briefly describe the scenarios, where database management system should not be used?

(d) Describe the reasons for which information system audit is gaining significance.

(4 marks each)

OR (Alternate question to Q. No. 3)

3A. Write short notes on the following:

(i) Use of Analytics

(ii) Android Operating System

(iii) Data structure and its characteristics

(iv) Bluetooth Technology.

(4 marks each)
4.  
   (a) What do you mean by State Wide Area Network (SWAN) ? Briefly describe its features.
   
   (b) Describe the steps involved in implementation of ERP in an organization.
   
   (c) As an information system auditor what are the environment controls that need to be checked and commented by you ? Write any eight.
   
   (d) What are the limitations of using MIS ? State any four.

(4 marks each)

5.  
   (a) Suppose you are appointed as a member of National e-Governance Plan (NeGP) implementation committee. Explain the elements to be incorporated by you in the approach and methodology for a proposed e-Governance application adopted for NeGP.

(8 marks)

   (b) Explain Internet Protocol. What are the characteristics of Internet Protocol ?

(8 marks)

6.  
   (a) Draw a flowchart to find the sum of the square of first 15 odd numbers.

   (b) Describe any four effects of applying computer technology to Management Information System (MIS).

   (c) What are the functions of Database Management System ? Write any four.

   (d) Name the various steps involved in conducting Information System Audit.

(4 marks each)