*Roll No......................................*

*Time allowed : 3 hours*                               *Maximum marks : 100*

*Total number of questions : 6*                       *Total number of printed pages : 3*

**NOTE :** *Answer ALL Questions.*

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*)

# 334

*OR (Alternate question to Q. No. 2)*

**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*)

*Attempt all parts of either Q. No. 3 or Q. No. 3A*

**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*)

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