

ASSIGNMENT TOPICS FOR P.G. DIPLOMA IN INFORMATION TECHNOLOGY
EXAMINATION, DECEMBER 2009.

PGDIT 01: BASICS OF INFORMATION TECHNOLOGY

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. What is the role of information technology in business?
2. Explain with neat diagram of various parts of computer.
3. Discuss about memory and storage devices.
4. What is software? Describe system software and application software.
5. What is an operating system? Describe various operating systems and its features.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. Describe various output devices.
2. What is DBMS? What are the properties of relational table in RDBMS?
3. Explain about WWW.
4. What are the various business areas in which are the internet is using today?
5. Explain about various network topologies.

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PGDIT 02: COMPUTER NETWORKS

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. (a) Define data communications.
(b) Explain about its characteristics and its components.
2. Explain brief description about multiple access.
3. What is switching? Explain briefly about types.
4. Define computer network? What are the applications?
5. Explain about IP address calculation.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. What is routing? Explain about shortest path routing.
2. Write about binary arithmetic operations.
3. Explain the importance of computer networking.
4. Explain about applications of routing.
5. Give brief description about network technologies.

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PGDIT 03: COMPUTER ORGANISATION

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Explain about Pentium family processors.
2. Discuss various generations of computer.
3. Explain about computer performance.
4. Give brief description about top level view of computer function.
5. Explain about interconnection concepts in CO.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. Write about RAID levels.
2. Write about floating point arithmetic.
3. Explain about different types of memory.
4. Give briefly about various components of CPU.
5. List various functions of CPU.

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PGDIT 04: DATA STRUCTURES WITH C

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Differentiate linear and non-linear data structures.
2. Discuss various operations in Data structures.
3. Describe string handling functions in C.
4. Write a short notes on Records and Pointers.
5. Explain about different types of Queues.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. Write about single linked list.
2. Define recursion. Write a 'C' program to fibonacci series using recursion.
3. Write about various tree traversing techniques.
4. Write and implement linear search.
5. What is meant by sorting? Explain about insertion sorting techniques.

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PGDIT 05: OPERATING SYSTEMS

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Explain Different types of operating systems.
2. Define scheduling. Explain about different types of scheduling.
3. What are various functions of operating systems?
4. What is process? Explain process control Block?
5. Write about inter process communication.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. Explain paging and segmentation.
2. Explain about file allocation methods.
3. Explain about I/O buffering.
4. Explain about page replacement algorithms.
5. What are the fundamental requirements addressed by computer security?

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PGDIT 06: DBMS

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Explain about database concept.
2. (a) What are the five main functions of DBA?
(b) Explain the difference between physical and logical data independence.
3. Explain the data models with examples.
4. Briefly discuss hierarchical DBMS.
5. Discuss about database maintenance.

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Differentiate between hierarchical, Network and RDBMS.
2. With a neat sketch, explain the architecture of DBMS.
3. What is ER model? Explain the features of ER model.
4. Discuss the “Importance of DBMS”.
5. Explain the issues related to implementation of DBMS.