

ASSIGNMENT TOPICS FOR P.G. DIPLOMA IN COMPUTER APPLICATIONS
EXAMINATION, DECEMBER 2009.

PGDCA 01: INFORMATION TECHNOLOGY

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. What is the role of information technology in business?
2. What are the various components of CPU? Explain them.
3. Explain various input devices.
4. Explain the following output devices :
 - (a) Monitors
 - (b) Printer
 - (c) Sound devices.
5. What is an operating system? Why it is required for a computer?

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. How to manage data and information? Explain it briefly.
2. Explain about program development steps.
3. Explain the terms :
 - (a) TCP/IP
 - (b) E-mail
 - (c) IP address.
4. Explain the various ways of accessing Internet. Describe the applications of Internet.
5. Explain about Internet and Extranets.

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PGDCA 02: PROGRAMMING WITH C++

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Differentiate C and C++.
2. Explain about various control structures in C++.
3. Discuss function overloading with suitable example.
4. Define array. How the arrays are initialized? Explain different types of arrays.
5. Describe the string handling functions in C++.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. What is class? How to create objects? Explain it with example.
2. Explain about operator overloading with example.
3. Define inheritance. Explain multiple inheritance with suitable example.
4. Write about templates.
5. Discuss about container classes in C++.

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PGDCA 03: COMPUTER ORGANIZATION

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. What are various components digital computer? Write its functions.
2. How to determine co performance? Explain it.
3. Give brief description about a top level view of computer function.
4. Explain about memory hierarchy.
5. Write notes on RAID levels.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. Explain about floating point arithmetic.
2. Write about various logical operations.
3. Describe the structure of CPU.
4. Discuss briefly about the functionalities of CPU.
5. Describe the various components of CPU.

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PGDCA 04: DATA STRUCTURES

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Explain about linear and non linear data structures with example.
2. Write the different data structure operations.
3. Write and explain any five string handling functions.
4. Write a short notes on records and pointers.
5. Explain about various queue operations.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. What is double linked list? Write about different double linked list operations.
2. Write about different tree traversing techniques.
3. Write a short notes on binary trees.
4. What is meant by shorting? Explain exchange sort with suitable example.
5. Explain about searching methods.

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PGDCA 05: OPERATING SYSTEMS

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Explain about evaluation of operating systems.
2. Explain about scheduling algorithms with suitable example.
3. What is process? Explain process control Block.
4. Write about inter process communication.
5. Explain paging and segmentation.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

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

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PGDCA 06: DATA BASE MANAGEMENT SYSTEMS

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Discuss the importance of Data base Management System.
2. What is a stack data structure? Illustrate it with an appropriate example.
3. Discuss the various file organizations with examples.
4. Explain the hierarchical data model with an example.
5. Write the steps involved in Data base design.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. Discuss about implementation design.
2. Briefly describe about hierarchical database management systems.
3. Give brief description about Network database management systems.
4. Explain the Relational Data base Management System.
5. Discuss the importance of maintenance in a DBMS.

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PGDCA 07: ACCOUNTS & FINANCE

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Define the term 'accounting'. What are some of the tasks which accountants perform?
2. What is money measurement concept? What limitation does this concept put on the use of accounting?
3. What is a Bank Reconciliation statement and how is it prepared?
4. What is a post – closing trial balance? How does it differ from an adjusted trial Balance?
5. What do you mean by cost accounting? State the objectives of cost accounting.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. What is a budget? Discuss various types of budgets.
2. Define the term 'Finance'. Explain briefly about features of Financial decision making.
3. What is the purpose of the statement of changes in financial position? Explain.
4. What is procedure would you adopt to study the liquidity of a business firm?
5. How are net working capital, liquidity, technical insolvency, and risk are related to each other?

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PGDCA 08: COMPUTER GRAPHICS

Assignment – I

Answer all the questions:

Maximum: 25 Marks

1. Describe various ways to represent a line drawing display.
2. Discuss 2-D translation, rotation and reflection.
3. Define clipping. Describe different types of clippings.
4. Write and explain display file compilation algorithm.
5. Write about picture structure and character generation.

Assignment – II

Answer all the questions:

Maximum: 25 Marks

1. Explain about various graphical input devices.
2. Explain about any two graphical output devices.
3. Write about solid area scan conversion.
4. What are the hardware requirements for raster display?
5. Discuss about simple graphics package.