

Gurdasdevi Institute of Management and Technology (GIMT)
(Affiliated with IKG. Punjab Technical University)

ASSIGNMENT

Course	BCA	Semester	3rd
Mcode	78179	Subject Code	UGCA1913
Subject	Computer Networks		

Answer the following Questions in about 500 words each. (Write Any Three) (Long Questions)

1. How network topologies are used to connect computers in networks? Discuss their types.
2. What is need for OSI Reference model in Networking? Write description of layers.
3. Briefly explain the steps of error detection and correction on data link layer.
4. a) Write the need of IEEE 802.4 standard in networking.
b) What is use of CSMA / CD protocol?
5. What is shortest path routing? Write in detail any one routing algorithm.
6. Discuss the design issues of session layer? What is use of remote procedure call in session layer?

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Course	BCA	Semester	3rd
Mcode	78181	Subject Code	UGCA1915
Subject	Data Structures		

Answer the following Questions in about 500 words each. (Write Any Three) (Long Questions)

1. Discuss the limitations of Arrays. Write the steps to find out largest element of an array.
2. Explain Inorder, Preorder and Postorder Traversal operation.
3. What is Queue? Write an algorithm to insert an element from a simple Queue.
4. What is Doubly Linked List? Write an algorithm to insert and delete a node in Doubly Linked List.
5. Write an algorithm to sort an array of integers in the descending order using quick sort.
6. Illustrate the concept of breadth-first search traversing of graph.

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ASSIGNMENT

Course	BCA	Semester	3rd
Mcode	78185	Subject Code	UGCA1919
Subject	PC Assembly & Troubleshooting		

Answer the following Questions in about 500 words each. (Write Any Three) (Long Questions)

1. What is Personal Computer (PC)? What are its different generations of Computer?
2. Discuss different types of processors used in PC and their features.
3. What is the difference between printer and scanner? Discuss working of laser jet printers.
4. What are main components required to assemble as PC at Home?
5. What step to troubleshoot a failed boot before the OS is loaded?
6. How troubleshoot different main memory (RAM) problems in PC? Explain.

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ASSIGNMENT

Course	BCA	Semester	3rd
Mcode	78180	Subject Code	UGCA1914
Subject	Programming in Python		

Answer the following Questions in about 500 words each. (Write Any Three) (Long Questions)

1. What is an exception? Illustrate the use of exception handling by writing a function named readposint that uses the input dialog to prompt the user for a positive integer and then checks the input to confirm that it meets the requirements. It should be ab
2. Explain the process of opening, reading and writing files in Python. You .are given a file called class_scores.txt, where each line of the file contains a one-word useame and a test score separated by spaces, like below:
GWashington 83
JAdams 86 .
Write
3. Write a detailed note on the four collection data types in the Python programming language: list, tuple, set and dictionary. Write about their features and usage.
4. What is a module? How are modules created and used in Python? List some standard Python modules.
5. What are the various types of operators available in Python? Write a program that generates a random decimal number between 1 and 10 with two decimal places of accuracy. Examples are 1.23, 3.45, 9.80, and 5.00.
6. Explain various mechanisms of passing arguments to functions in Python. Discuss the behaviour of recursive functions with the help of example.