

NATIONAL BUSINESS COLLEGE

ASSIGNMENT

BCA 2nd YEAR

SYSTEM ANALYSIS & DESIGN

F.M- 100

Last Date to Submit: - 13th March

Answer all the questions: -

- (1) Explain different project estimation techniques in details.
- (2) Explain Waterfall model in details with a suitable example.
- (3) Draw a DFD up to level 2 for Airline management system.
- (4) Explain the following term:
 - (a) Cost Estimating
 - (b) Cost control
 - (c) Cost Budgeting
- (5) What are the testing methods? Explain with examples.

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.NET PROGRAMMING

F.M- 100

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Answer all the questions: -

- (1) (a) What is Trace in VB.Net?
(b) What is Authorization and Authentication?
- (2) What is the difference between Thread and Process?
- (3) How can we store decimal Data in .NET?
- (4) Explain the following term:
(a) CBOOL (b) COBJ (c) CSNG (d) CLNG (e) CBYTE
- (5) Write the steps for adding members and tools bar in MDI form.

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C++ PROGRAMMING

F.M- 100

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Answer all the questions: -

- (1) What is the access modifier available in C++ class? Explain them with suitable examples.
- (2) Write a program in C++ which read a set of character using pointer then print in the reverse order.
- (3) What is the difference between structure and class?
- (4) Design in oops program in C++ to create the payroll of an organization by the following information:
 - (a) Employee name
 - (b) Employee id
 - (c) Account No
 - (d) Date of joining
 - (e) Basic Pay
 - (f) DA, HRA etc.
- (5) What are the static member variable and function? Write a program to count no between 20 to 120, which are not divisible by first three even numbers.

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RDBMS

F.M- 100

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Answer all the questions: -

(1) What are the different types of database users who interact the database system? Explain each of them in brief.

(2) What is SQL? What are the two major categories of SQL commands? Explain them.

(3) What is Data dictionary? What are the information stored in the data dictionary? What are the benefits of Data dictionary? Who are the users of Data dictionary?

(4) Describe the following in details:

(a) Foreign Key (b) Superclass

(c) Categorization

(5) (a) Differentiate between cartesian product and Natural join operations used in relational algebra. How does the domain relational calculus differ from tuple relational calculus?

(b) Explain the 3-schema architecture of DBS. Why do we need mappings between schema levels? How do different schema definition languages support this architecture?

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DATA STRUCTURE

F.M- 100

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Answer all the questions: -

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(1) Create a binary search tree when elements arrive in the following order:

15,5,20,7,29,11,23,29,13,12

(2) Explain binary tree with suitable example with in-order-order and post-order traversal. List the properties of a binary tree.

(3) Explain Dijkstra's algorithm with a suitable example.

(4) Describe the following in details:

(a) DFS

(b) Hashing

(c) AVL Tree

(5) (a) What is circular linked list? Write an algorithm for inserting a node at the front.

(b) What is stack? Implements its push () and pop () functions with the help of linked list methods.

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COMPUTER NETWORK

F.M- 100

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Answer all the questions: -

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- (1) Discuss TCP and UDP transport layer protocol in details.
- (2) Discuss Distance vector and Link-state routing in details.
- (3) Explain different types of switching techniques along with their advantages and disadvantages.
- (4) What is Framing and why it is required? Explain the Framing concept with respect to Data link layer?
- (5) Explain working of Pure Aloha and Slotted Aloha? Derive an expression to proof the claim that Slotted Aloha is better than Pure Aloha.