



COMSATS University Islamabad Vehari Campus
Department of Computer Science
Terminal Exam – FA- 2021

Class: BSSE
 Subject: DataStructure & Algorithms
 Total Time Allowed: 180 mins
 Name: _____

Date: _____
 Instructor: Tahir Rashid
 Max Marks: 50
 Registration # _____

Note: Read all the questions thoroughly and ask if there any questions or query within first five (5) minutes.

Question # 1: Answer the following short questions very precisely and do not write more than two lines. (1+1+1)

- If a tree has $N-1$ nodes, then how many are the links (edges)?
- Describe the conditions necessary for fully connected graph.
- Provide the three real time examples of graphs.

Question # 2: Here is a small binary tree:

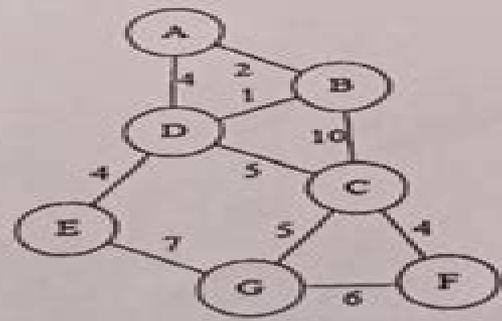


- What are all the leaves? (2pts)
- What are the ancestors of the node 30? (2pts)
- What are the descendants of the node 11? (2pts)
- Is the tree a binary search tree (BST) (true/false)? (1pts)
- Print the tree when visited in in-order manner? (3pts)

Question # 3: Trace the running of the infix to postfix conversion algorithm on the infix expression. (6)
 $A - (B + C) / D$

Question # 4:

- A: Using Dijkstra's algorithm, find a shortest path on this graph between A and G, showing your work: (5)
- B: Using Kruskal's algorithm, find a minimum spanning tree on this graph, showing your work: (5)



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Data Structures And Algorithm Question Paper

Clemens Wendtner



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Table of Contents Data Structures And Algorithm Question Paper

1. Understanding the eBook Data Structures And Algorithm Question Paper
 - The Rise of Digital Reading Data Structures And Algorithm Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Data Structures And Algorithm Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Data Structures And Algorithm Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Data Structures And Algorithm Question Paper

- Personalized Recommendations
 - Data Structures And Algorithm Question Paper User Reviews and Ratings
 - Data Structures And Algorithm Question Paper and Bestseller Lists
5. Accessing Data Structures And Algorithm Question Paper Free and Paid eBooks
 - Data Structures And Algorithm Question Paper Public Domain eBooks
 - Data Structures And Algorithm Question Paper eBook Subscription Services
 - Data Structures And Algorithm Question Paper Budget-Friendly Options
 6. Navigating Data Structures And Algorithm Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Data Structures And Algorithm Question Paper Compatibility with Devices
 - Data Structures And Algorithm Question Paper Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Data Structures And Algorithm Question Paper
 - Highlighting and Note-Taking Data Structures And Algorithm Question Paper
 - Interactive Elements Data Structures And Algorithm Question Paper
 8. Staying Engaged with Data Structures And Algorithm Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Data Structures And Algorithm Question Paper
 9. Balancing eBooks and Physical Books Data Structures And Algorithm Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Data Structures And Algorithm Question Paper
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Data Structures And Algorithm Question Paper
 - Setting Reading Goals Data Structures And Algorithm Question Paper
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Data Structures And Algorithm Question Paper

- Fact-Checking eBook Content of Data Structures And Algorithm Question Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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up to 28 august 22 bc julian the date in both calendars was the same the dates in the alexandrian and julian calendars are in one to one correspondence except for the period from 29 august in the year preceding a julian leap year to the following 24 february

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it assigns a julian day jd to every year without having to worry about b c e or c e it was invented by french scholar joseph justus scaliger in 1583 who proposed that the julian period starts at noon on january 1 4713 b c e julian calendar and lasts for 7980 years this was determined because it is a time period long enough to include

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currently the julian calendar is 13 days behind the gregorian calendar so to convert from the julian calendar to the gregorian calendar add 13 days to convert in the opposite direction subtract 13 days the gap between the two calendar

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specifically for dates on or before 4 october 1582 the julian calendar is used for dates on or after 15 october 1582 the gregorian calendar is used thus there is a ten day gap in calendar dates but no discontinuity in julian dates or days of the week 4 october 1582 julian is a thursday which begins at jd 2299159 5 and 15 october

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