

Model Question Paper with effect from 2023-24 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination Analysis and Designs of Algorithms

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any FIVE full questions, choosing at least ONE question from each MODULE.

Module -1			BL	Marks														
Q.01	a	Define algorithm. Explain asymptotic notations Big Oh, Big Omega and Big Theta notations	L2	08														
	b	Explain the general plan for analyzing the efficiency of a recursive algorithm. Suggest a recursive algorithm to find factorial of number. Derive its efficiency	L2	08														
	c	If $t1(n) \in O(g1(n))$ and $t2(n) \in O(g2(n))$, then show that $t1(n) + t2(n) \in O(\max\{g1(n), g2(n)\})$.	L2	04														
OR																		
Q.02	a	With neat diagram explain different steps in designing and analyzing an algorithm	L2	08														
	b	Explain the general plan for analyzing the efficiency of a non-recursive algorithm. Suggest a non-recursive algorithm to find maximum element in the list of n numbers. Derive its efficiency	L2	08														
	c	With the algorithm derive the worst case efficiency for Bubble sort	L2	04														
Module-2																		
Q.03	a	Explain the concept of divide and conquer. Design an algorithm for merge sort and derive its time complexity	L2	10														
	b	Design an insertion sort algorithm and obtain its time complexity. Apply insertion sort on these elements. 25,75,40,10,20.	L3	10														
OR																		
Q.04	a	Explain Strassen's matrix multiplication and derive its time complexity	L2	10														
	b	Design an algorithm for quick sort algorithm. Apply quick sort on these elements. 25,75,40,10,20,05,15	L3	10														
Module-3																		
Q.05	a	Define AVL Trees. Explain its four rotation types	L2	10														
	b	Construct bottom up heap for the list 2,9,7,6,5,8. Obtain its time complexity	L3	10														
OR																		
Q.06	a	Define heap. Explain the properties of heap along with its representation.	L2	10														
	b	Design Horspools algorithm for string matching. Apply Horspools algorithm to find the pattern BARBER in the text: JIM SAW ME IN A BARBERSHOP	L3	10														
Module-4																		
Q.07	a	Construct minimum cost spanning tree using Kruskals algorithm for the following graph.	L3	10														
b	What are Huffman Trees? Construct the Huffman tree for the following data.			L3	10													
	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Character</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Probability</td> <td>0.5</td> <td>0.35</td> <td>0.5</td> <td>0.1</td> <td>0.4</td> <td>0.2</td> </tr> </tbody> </table> Encode DAD-CBE using Huffman Encoding.			Character	A	B	C	D	E	-	Probability	0.5	0.35	0.5	0.1	0.4	0.2	
Character	A	B	C	D	E	-												
Probability	0.5	0.35	0.5	0.1	0.4	0.2												

Genetics Model Question Paper

L Towne



Genetics Model Question Paper:

This book delves into Genetics Model Question Paper. Genetics Model Question Paper is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Genetics Model Question Paper, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Genetics Model Question Paper
- Chapter 2: Essential Elements of Genetics Model Question Paper
- Chapter 3: Genetics Model Question Paper in Everyday Life
- Chapter 4: Genetics Model Question Paper in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Genetics Model Question Paper. The first chapter will explore what Genetics Model Question Paper is, why Genetics Model Question Paper is vital, and how to effectively learn about Genetics Model Question Paper.

3. In chapter 2, the author will delve into the foundational concepts of Genetics Model Question Paper. The second chapter will elucidate the essential principles that need to be understood to grasp Genetics Model Question Paper in its entirety.

4. In chapter 3, the author will examine the practical applications of Genetics Model Question Paper in daily life. The third chapter will showcase real-world examples of how Genetics Model Question Paper can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Genetics Model Question Paper in specific contexts. The fourth chapter will explore how Genetics Model Question Paper is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Genetics Model Question Paper. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Genetics Model Question Paper.

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