

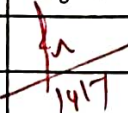
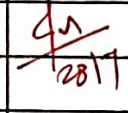
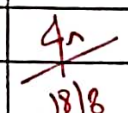
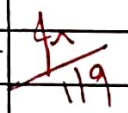
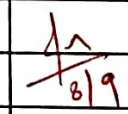
PIMPRI CHINCHWAD EDUCATION TRUST'S
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

Department Of Information Technology.


Year and Course T.Y. B.Tech (2025-26) PRN No.: 123B1F036

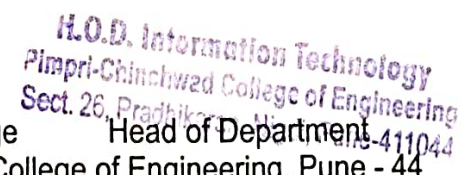
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Sr. No.	Title	Page No.	Date	Signature	Remarks
I.	Implement mergesort to efficiently organize large scale orders based on Timestamp.	-	7-7-25		Ⓢ
II	Implement quicksort to enhance personalized movie ranking & improve responsiveness.	-	21-7-25		Ⓢ
III.	Emergency relief supply optimization implement the fractional knapsack algorithm to maximize utility value within given weight constraints.	-	4-8-25		Ⓢ
IV.	Smart traffic management implement dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions.	-	15-8-25		Ⓢ
V.	Optimal delivery routing-Implement DP to identify cost effective delivery paths.	-	25-8-25		

This is certify that Shri. Rupesh Jaiswal has carried out the above mentioned Design & Analysis of Algorithm Practicals / Term Work in the I.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 03/11/2025


Subject Incharge
Pimpri Chinchwad College of Engineering, Pune - 44

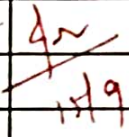
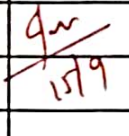
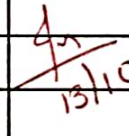

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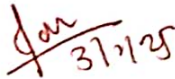
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Sr. No.	Title	Page No.	Date	Signature	Remarks
VI.	Disaster relief resource allocation - Use of knapsack approach to optimize essential supply allocation within capacity limits.	-	14-9-25		(C)
VII.	University Exam timetable scheduling - Implement graph coloring techniques to generate conflict free & efficient timetables.	-	15-9-25		(C)
VIII.	Delivery route optimization - apply the branch & bound algorithm to determine the least cost delivery route across cities	-	6-10-25		(C)

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