66341

Solution:

Fundamental of algorithm

ii. iii. iv.	(b)-O(n) (a)-cycle chil tree sho	rithm hary Search Tree ldr
1-C i. ii. iii. iv. v.	Giv Exp A t	te 127, "Data structure and algorithms in Python, Goodrich re definition with suitable example. Tolain with reference to list. Explain search time. (O(n)) There with up to two child nodes The definition and its applications
2.	A. B. C. D. E.	Give definitions and suitable illustration. Explain why they are useful. Definition (2 Marks). Example (3 Marks) Explain what is guessing & confirming (2 Marks) Example (3 Marks) Explanation of the problem (1 Marks). Algorithm (4 Marks) Explain how are they useful in algorithmic analysis.(2 Marks) Give examples of each. (3 Marks)
3.	A. B. C. D. E. F.	Definition (2 Marks). Characteristics (3 Marks) definition (1 Marks). (2 Marks each for each traversal –preorder/inorder/postorder) definition (2 Marks). Example(3 Marks) definitions (2 Marks). Example (3 Marks) Definition (1 Marks), Algorithm (4 Marks) definition (1 Marks). Difference (2 Marks), Example (2 Marks)
4.	A. B. C. D. E. F.	definition (2 Marks), algorithm (3 Marks) give its characteristics with example. explain concepts(2 Marks), Example(3 Marks) Dynamic programming (1 Marks), (2 Marks each for each example) Explain each element. Definition of classification (1 Marks), description of Classification by Implementation Method (4 Marks)
5.	A. B. C. D. E.	Definition (2 Marks), its importance and usage (3 Marks) definition (2 Marks). Example (3 Marks) definition (2 Marks). Example (3 Marks) definition (2 Marks), Its use and example (3 Marks) 2.5 Marks each.