

2201-COL106 Minor

Aaveg Jain

TOTAL POINTS

35 / 40

QUESTION 1

1 5 / 5

⚡ - 5 pts Wrong answer or answered "Yes"

⚡ - 4 pts Answered "No" without proper example or justification

⚡ - 1 pts Answered "No" with incomplete explanation or example

! - 0 pts Answered "No" with proper example and justification

QUESTION 2

2 5 / 5

⚡ + 0 pts Incorrect / Not Attempted

! + 1.25 pts Correct while loop condition

! + 1.25 pts Correct update statement in if block

! + 1.25 pts Correct condition for returning true

! + 1.25 pts Correct time complexity

⚡ + 0 pts Minor inaccuracies

QUESTION 3

3 2 / 5

⚡ + 0 pts Incorrect

⚡ + 5 pts Correct

⚡ - 1 pts Incorrect complexity

⚡ - 4 pts Inefficient solution

⚡ - 0.5 pts For incorrect 1st blank

! + 0.5 pts For correct 1st blank

⚡ - 1.5 pts For incorrect 2nd blank

! + 1.5 pts For correct 2nd blank

⚡ - 2 pts For incorrect 3rd blank

⚡ + 2 pts For correct 3rd blank

QUESTION 4

10 pts

4.1 5 / 5

⚡ + 0 pts Incorrect / Not Attempted

⚡ + 1 pts Partially Correct Ideas: Complete binary tree Assumption upto level d / All leaves with same shallowest depth etc.

! + 3 pts Correct Expression

! + 2 pts Correct Explanation

⚡ + 1 pts Partially Correct Explanation

4.2 5 / 5

⚡ + 0 pts Incorrect / Not Attempted

! + 2 pts Expression / Value off by a constant

⚡ + 2 pts Correct Expression / Value

! + 3 pts Correct Explanation

QUESTION 5

5 13 / 15

⚡ - 0 pts Correct code

! - 2 pts Code is slightly incorrect

⚡ - 5 pts Right idea, but many mistakes in code

⚡ - 10 pts Incorrect /missing code

⚡ - 5 pts Incorrect /missing proof of correctness

! - 0 pts *Correct proof of correctness*

⌘ - 3 pts Proof of correctness partially correct



