**SUNDAR COACHING CENTRE**

**SUBJECT – ADVANCED DATA STRUCTURES AND ALGORITHMS**

***K-D TREES***

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**Question-1**

Define *K-D Trees*. How are they different from normal binary trees?

[2]

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**Question-2**

Insert the following numbers into a 2-D Tree: (2, 3), (4, 2), (4, 5), (3, 3), (1, 5), (5, 4), (1, 1). The tree must be:

1. Unbalanced
2. Balanced

[4]

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**Question-3**

Insert the following numbers into a 3-D Tree: (3, 1, 4), (2, 3, 7), (4, 3, 4), (2, 1, 3), (6, 1, 4), (1, 4, 4), (0, 5, 7), (5, 2, 5), (4, 0, 6). The tree must be:

1. Unbalanced
2. Balanced

[4]

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