Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Pi** | 9 | 15 | 12 | 4 | 6 | 16 | 8 |
| **Wi** | 2 | 3 | 5 | 4 | 3 | 6 | 3 |
| **Ratio** |  |  |  |  |  |  |  |
| Index | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

**Capacity = 15, number of objects = 7**

**Method-1: Basis: Minimum Weight Method-3: Basis Maximum Profit/Weight Ratio**

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| --- | --- | --- | --- | --- | --- | --- |
| Object index | Weight of object | Profit of object | Capacity in Bag | Partial / Complete | Capacity Remaining | Weight in bag |
|  |  |  | 15 |  |  | 0 |
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| --- | --- | --- | --- | --- | --- | --- |
| **Object index** | **Weight of object** | **Profit of object** | **Capacity in Bag**  **{Decrease}** | **Partial / Complete** | **Capacity Remaining**  **{Decrease}** | **Weight in bag {Increase}** |
|  |  |  | **15** |  | **15** | **0** |
| **O1** | **2** | **9** | **15** | **C** | **13** | **2** |
|  |  |  | **13** |  |  |  |
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**Method-2 Basis: Maximum Profit**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Object index | Weight of object | Profit of object | Capacity in Bag | Partial / Complete | Capacity Remaining | Weight in bag |
|  |  |  | 15 |  |  | 0 |
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