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COURSE: SURVEY(310)

MATRIC NO: 17/ENG03/054

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**QUESTION 1**

1. ***RISE AND FALL METHOD***

MERITS: It is easier to spot errors with this method

DEMERITS: It is bulky

***HEIGHT OF COLLIMATION METHOD***

MERITS: It is quite faster than rise and fall method

DEMERITS: It is fairly prone to errors



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| B.S | I.S | F.S | H OF C | R.L | DIST | REMARK |
| 0.771 |  |  | 164.771 | 164 | 0 |  |
| 0.802 |  | 1.52 | 164.053 | 163.251 | 10 | CP |
|  | 2.311 |  |  | 161.742 | 20 |  |
| 3.580 |  | 1.990 | 165.643 | 162.063 | 30 | CP |
|  | 1.220 |  |  | 164.423 | 40 |  |
|  | 3.675 |  |  | 161.968 | 50 |  |
| 2.408 |  | 4.020 | 164.031 | 161.623 | 60 | CP |
|  | 0.339 |  |  | 163.692 | 70 |  |
| 0.780 |  | 0.157 | 164.654 | 163.874 | 80 | CP |
|  | 1.535 |  |  | 163.119 | 90 |  |
|  | 1.955 |  |  | 162.699 | 100 |  |
|  | 2.430 |  |  | 162.224 | 110 |  |
|  | 2.985 |  |  | 161.669 | 120 |  |
| 1.155 |  | 3.480 | 162.329 | 161.174 | 130 | CP |
|  | 1.960 |  |  | 160.369 | 140 |  |
|  | 2.365 |  |  | 159.964 | 150 |  |
| 0.935 |  | 3.640 | 159.624 | 158.689 | 160 | CP |
|  | 1.045 |  |  | 158.579 | 170 |  |
|  | 1.630 |  |  | 157.994 | 180 |  |
|  |  | 2.545 |  | 157.079 | 190 |  |

CHECK:

∑F.S - ∑B.S = RL@ 1st – RL@ last

17.352-10.431 = 164-157.079

6.921 = 6.921













