**ACT4311 Homework 1 Answer Sheet**

For Q1 to Q10, please choose the best option and write your answer in the following answer sheet.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Question | Q1  (6 points) | Q2  (6 points) | Q3  (6 points) | Q4  (6 points) | Q5  (6 points) |
| Answer | B | A | B | D | A |
| Question | Q6  (6 points) | Q7  (6 points) | Q8  (6 points) | Q9  (6 points) | Q10  (6 points) |
| Answer | D | C | C | C | D |

For Q11, please write your answer in the following box (at least 3 digits after decimal point).

|  |
| --- |
| Q11 (15 points) |
| 0.007 |

For Q12, please show the decision tree in the following box. You can draw it with your computer or by hand (i.e. scan / photo-taking).

|  |
| --- |
| Q12 (10 points) |
|  |

For Q13, please fill in the following table.

|  |  |  |  |
| --- | --- | --- | --- |
| Q13 (15 points) | | | |
|  | Leaf A | Leaf B | Leaf C |
| Frequency | 0.67 | 0.67 | 0.67 |
| Laplace Correction | 0.6 | 0.625 | 0.643 |