JOINT PP1 MATHEMATICS MARKING SCHEMES.

|  |  |  |
| --- | --- | --- |
| 1 |  | M1M1A1 |
| 2 |  | M1M1A1 |
| 3 |  | M1A1 |
| 4 |  | M1M1A1B1 |
| 5 |  | M1A1B1 |
| 6 |  | M1M1A1 |
| 7 |  | M1M1A1 |
| 8 |  | M1M1A1 |
| 9 |  | M1M1A1 |
| 10 |  | M1M1A1B1 |
| 11 |  | M1M1A1B1 |
| 12 |  | M1A1 |
| 13 |  | M1M1A1 |
| 14 |  | M1M1A1 |
| 15 |  | M1A1M1A1 |
| 16 |  | B1-continous linesB1-dotted linesB1-complete diagram |
| 17 | 1. (i)

 1. (i)

(ii)   | M1A1M1M1A1M1A1B1M1A1 |
| 18 |  | B1B1B1M1M1M1M1A1M1A1 |
| 19 | (a)(b)A’(2,6), B’(2,8), C’(0,6)(c)A”(5,3), B”(5,7), C”(1,3)(d) Centre(4.5,1.5) angle=900(e)(i) ABC and A’B’C’(ii) A”B”C” and A’’’B’’’C’’’ | B1-B1-B1-coordB1-B1-coordB1-bisectorsB1-centre identifiedB1-cenre&angleB1-oppB1-direct |
| 20 | 1. (i)

(ii) 1. (i)

(ii)  | M1A1M1A1M1M1A1M1M1A1 |
| 21 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Mass(kg) | 41-50 | 51-55 | 56-65 | 66-70 | 71-85 |
| Frequency | 8 | 12 | 16 | 10 | 6 |
| Height of rectangle | 0.4 | 1.2 | 0.8 | 1.0 | 0.2 |

 1. (i) 56-65

(ii)  | B1B1S1-scaleB1B1-rectanglesB1M1A1M1A1 |
| 22 | 1. (i)

(ii)  | M1A1M1M1A1M1A1M1M1A1 |
| 23 |  | M1M1A1M1M1M1A1B1B1B1 |
| 24 | (a)(b) (i)  (ii)  (iii) | B1-QB1-R & TB1-VB1B1B1B1B1M1A1 |