**FORM FOUR MATHEMATICS PAPER 2**

**MARKING SCHEME**

|  |  |  |
| --- | --- | --- |
| **No**  | **Working** | **Remarks**  |
| 1 |  | M1M1A1 |
| 2 |

|  |  |  |
| --- | --- | --- |
| **No** | **Std form** | **Log**  |
| 45.30.00697 |  |  |
| 0.534 |  |  |
|  |  |  |
|  |  |  |

  | M1 all correct logsM1 addition & subtractionM1 cube rootA1 correct answer |
| 3 | Actual area = Maximum area = Minimum area = Absolute error = Percentage error =  | M1M1A1 |
| 4 | Amount as a result of borrowing = Amount as a result of appreciation = Profit =  | M1M1 A1 |
| 5 |  | M1A1 |
| 6 | 1.

    | B1M1A1 |
| 7 |  ........... (i) .......... (ii)Solving (i) and (ii) simultaneously, | M1 (both equations)A1 (both k & m)B1 |
| 8 |  | M1M1A1 |
| 9 |  | M1M1A1 Both values |
| 10 | Radius = Centre  | M1M1A1 |
| 11 |  | B1B1B1B1 |
| 12 | Area =  | M1M1A1 |
| 13 | 1.
 | M1A1B1 |
| 14 | Let  | M1A1B1 |
| 15 | Let AC  | M1M1A1 |
| 16 |   | M1 (both values)M1A1 |
| 17 | 1. (i)

(ii)    1. (i)

(ii)  | B1B1B1B1B1M1M1A1 (both )B1B1 |
| 18 | C:\Users\user\Desktop\T32021\img20220202_17354840.jpg | B1 –lines QR, PRB1 - B1 – complete figure |
|  | B1 |
|   | M1 M1A1 |
|  | 1. Line bisectors

Circle correctly drawn | B2B1 |
| 19 | 1. Taxable income =

 pounds1. 1st band

2nd band 3rd band 4th band 5th band Total tax payable   1. Net salary

  | M1A1M1M1M1A1M1A1M1A1 |
| 20 | 1. (i) Width = Length

 and  (ii) Remaining area  | M1M1M1A1M1A1M1A1M1A1 |
| 21 | 1.

C:\Users\user\Desktop\T32021\P2 21.jpg 1. (i)

    (iii) (iv)    | B2 – for all probability spaceM1A1M1M1A1M1 A1M1A1 |
| 22 | 1.
2.
 | M1M1M1A1M1M1 A1M1M1A1 |
| 23 | 1.
2.
3.
4. Total length =
 | M1A1B1M1A1B1M1A1M1A1 |
| 24 | 1. Table of values

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|  | 0 | 1 | 4 | 9 | 16 | 25 | 36 |
|  | 0 |  |  |  |  |  |  |
|  | 5 | 0 |  |  |  | 0 | 5 |

 | B1 B1B1 - axes & scaleB1 - plottingB1 - curveB1B1 B1B1 B1 |
|  |
| 1. (i)

(ii) Draw a graph of  (iii) Draw graph of   |