**KASSU JOINT EXAMINATIONS, 2018**

***Kenya Certificate of Secondary Education(K.C.SE)***

**121/2**

**MATHS**

**PAPER 2**

**MARKING SCHEME**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.** |  | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **2.** | **D=** | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **3.** |  | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **4.** | 36960A5 | **B1**  **B1**  **B1** | **For parallel line 3cm above AB**  **For correct arc**  **Locus of both P1 and P2** |
|  |  | **03** |  |
| **5.** |  | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| 6. | =  % error= | M1  M1  A1 |  |
|  |  | **03** |  |
| 7. |  | **B1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **8.** |  | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **9.** | **D:\doc5.jpg** | **B1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **10.** | **A= kd**  **K=**  **A=**  **= 90 Barrels** | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **11.** | |  |  |  |  | | --- | --- | --- | --- | | **No.** | **Std form** | **log** | **working** | | **45.3** | **4.53** | **1.6561** |  | |  | **6.97** |  |  | |  |  |  |  | | **0.534** | **5.34** |  |  | |  |  |  |  | | **0.8392** |  |  |  | |  |  |  |  | | **M1**  **M1**  **M1**  **A1** | * **M1For all correct logs** * **For attempt to divide** |
|  |  | **04** |  |
| **12.** |  | M1  B1  A  1 |  |
| **13.** |  | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **14.** | |  |  |  |  | | --- | --- | --- | --- | |  | **A** |  | **B** | | **bp** | **56** |  | **48** | |  |  |  |  | | **Difference** | **2** |  | **6** | | **Ratio** | **1** | | | | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **15.** |  | **B1**  **B1**  **B1**  **B1** |  |
| **16.** |  | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **17.** | **(a) T.I=** | **M1**  **M1**  **M1**  **A1**  **M1**  **M1**  **A1**  **M1**  **M1**  **M1**  **A1** |  |
|  |  | **10** |  |
| 18. |  | B1  B1  M1  M1  M1  M1  A1  M1  A1  A1 |  |
|  |  | **10** |  |
| **19.** | **D:\doc2.jpg** |  |  |
|  |  | **10** |  |
| 20. |  | M1  M1  A1  M1  A1  M1  M1  A1  M1  A1 |  |
|  |  | 10 |  |
| 21. | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |  | 3.70 | 3.78 | 3.87 | 3.95 | 4.04 | 4.12 | 4.21 |   D:\doc4.jpg | M1  B2  S1  P1  L1 |  |
|  |  | 10 |  |
| 22. | D:\doc3.jpg  10 goats  10 sheep | B1  B1  B1  B1  B1  B1 |  |
|  |  |  |  |
| **23.** | **a.**    **b.**      **c.** | **M1**  **M1**  **A1**  **M1**  **M1**  **A1**  **M1**  **M1**  **A1** |  |
|  |  | **10** |  |
| **24.** | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | **-2** | **-1.5** | **-1** | **-0.5** | **0** | **0.5** | **1** | |  | **0** | **0.25** | **2.25** | **4** | **4** | **6.25** | **9** |   **1-2** | **B2**  **M1**  **M1**  **A1**  **M1**  **M1**  **A1**  **M1**  **A1** |  |
|  |  | **10** |  |