**AS Skills**

*****All statistics used in this booklet are real and should be quoted in your exam*

**Task 1**

Magnitude is a logarithmic scale. An earthquake that is 7 on the Richter scale is 10 times larger than an earthquake that measures 6 on the Richter scale. Complete the following graph to illustrate the magnitude of the following earthquake (don’t forget to label the graph!):

|  |  |
| --- | --- |
| **Earthquake** | **Magnitude on Richter Scale** |
| Kobe, 1995 | 7.2 |
| Linconshire, 2008 | 5.2 |
| Haiti, 2010 | 7 |
| Boxing Day Indonesian Tsunami, 2004 | 9.1 |
| Bam, 2003 | 6.6 |

**Task 2**

Draw a logarithmic graph to show the number of people living with HIV/AIDs in the following countries:

|  |  |
| --- | --- |
| **Country** | **Number of People living with HIV/AIDs** |
| South Africa | 5,600,000 |
| Zambia | 980,000 |
| Malaysia | 100,000 |
| Libya | 10,000 |
| Iceland | 1,000 |



**Task 3**

Create a ‘Proportional Divided Circle’ to display the following information:

|  |  |
| --- | --- |
| **BMI Category** | **% of Year 6 Children in each BMI Category according to National Child Measurement Program (UK)** |
| Underweight | 1.3 |
| Healthy Weight | 66.1 |
| Overweight | 14.3 |
| Obese | 18.3 |



**Task 4**

Create a Triangular Graph to show the following

information:

|  |  |  |  |
| --- | --- | --- | --- |
| Ward in Stockton-On-Tees | % Population who own their property outright or with a loan or mortgage | % Population who rent their property from the council | % Population- Other |
| Charltons | 61.14 | 26.55 | 12.31 |
| Egglescliffe | 89.06 | 3.07 | 7.87 |
| Maltby | 67.57 | 16.47 | 15.99 |



**Task 5**

Answer the following questions using the Kite Diagram below.

1. Which species is most prevalent up to 2 metres from the shore?
2. What species is the most common in the sample shown in the Kite Diagram?
3. Which 2 species can be found 9 metres away from the shore?



**Task 6**

Answer the following questions using the Radial Diagram below.

1. What is the Theoretical DCIE?
2. What is the Average DC Utilization?
3. What is the Target Storage Utilization?

*[Disclaimer- Do not ask me what this graph is showing- I have no clue!]*



**Task 7**

Use the data on the next page to complete the dispersion diagram showing famines of the last 10 years. Data relating to Bangladesh and Somalia have already been added.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Area affected by Famine | Zimbabwe |  |  |  |
| Sudan |  |  |  |
| Malawi |  |  |  |
| Niger |  |  |  |
| Somalia |  |  |  |
| Dijibouti |  |  |  |
| Ethiopia |  |  |  |
| Kenya |  |  |  |
| Afghanistan |  |  |  |
| Bangladesh |  |  |  |
| East Africa |  |  |  |
| Tajikistan |  |  |  |
| Sahel |  |  |  |
|  |  |  |  |  |
|  |  | Frequency of Famines in the Past 10 Years |

|  |  |  |
| --- | --- | --- |
| 2000–2009 | Zimbabwe's food crisis caused by Mugabe's land reform policies[85] | Zimbabwe |
| 2003 | Famine in Sudan/Darfur (Darfur conflict) | Sudan |
| 2005 | 2005 Malawi food crisis | Malawi |
| 2005-2006 | 2005–06 Niger food crisis | Niger |
| 2006 | 2006 Horn of Africa food crisis | Somalia, Djibouti, Ethiopia and Kenya |
| 2008 | Myanmar food crisis. Cyclone Nargis devastated Burma's major rice-producing region.[86] | Myanmar |
| 2008 | North Korean food crisis[87][88] | North Korea |
| 2008 | Horn of Africa food crisis[89][90] | Somalia, Ethiopia and Kenya |
| 2008 | Afghanistan food crisis[91] | Afghanistan |
| 2008 | Bangladesh food crisis[92] | Bangladesh |
| 2008 | East Africa food crisis[93] | East Africa |
| 2008 | Tajikistan food crisis[94] | Tajikistan |
| 2009 | Kenya food crisis[95] 10 million Kenyans face starvation.[96] | Kenya |
| 2010 | Sahel food crisis [97] | Sahel |
| 2011 | Horn of Africa[98] | Somalia and neighbouring countries |