

**Geography**

**SENIOR ONE END OF YEAR EXAMINATIONS, 2019**

**SUBJECT: GEOGRAPHY AND ENVIRONMENT**

**DURATION: 2 HOURS**

**INSTRUCTIONS:**

1. Write your names and class on the answer booklet
2. Do not open this question paper until you are told to do so.

3) This paper has **TWO** sections **A** and **B**

**SECTION A**: Attempt all questions. **(50 marks)**

**SECTION B**: Attempt all questions. **(50 marks)**

4) Use a **blue** or **black** pen.

**SECTION A:** This sections **(50 marks)**

1. State three features of good a map. **(3marks)**
2. a)What is the difference between a map and a sketch map? **(2marks)**

b) State three the characteristics of a sketch map. **(3marks)**

3) Describe the characteristics of an atlas index. **(3marks)**

4) Differences between maps and aerial photographs. **(6marks)**

5 a) Differentiate between galaxy and comet galaxy. **(2marks)**

b) Give two examples of terrestrial planets and explain why they are called so. **(4marks)**

6) Describe the evidence show that the shape of the Earth is not a perfect sphere  **(6marks)**

7) Table below shows mean monthly temperatures of station X.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Months | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| Mean monthly temp 0 C | 20 | 18 | 21 | 25 | 25 | 28 | 28 | 27 | 20 | 20 | 21 | 23 |

(i) Calculate the mean annual range of temperature of station X**. (2marks)**

(ii Calculate the mean annual temperature. **(2marks)**

(iii) Calculate mean daily temperature of station X. **(2marks)**

8) Explain four any effect of relief on human activities in your area. **(4marks)**

9) Explain how destruction of the ozone layer effects living organisms on the earth. **(5marks)**

10) Briefly describe the importance of air in the soil. **(5marks)**

**Section B: Attempt all questions.(50marks)**

11) Study the table below and fill in the necessary missing information. **(10marks)**

|  |  |  |
| --- | --- | --- |
| Element | Instrument | Lines drawn on a map showing each element |
| ...................................... | Thermometer | ...................................... |
| Rainfall | Rain gauge | ....................................... |
| Wind speed | Anemometer | ....................................... |
| Wind direction | ...................................... | Isogon |
| ...................................... | Barometer/aneroid barometer | ...................................... |
| ...................................... | Hygrometer | Isohumes |
| Sunshine | ...................................... | Isohels |
| Cloud cover | Ceilometer/ceiling light(height of cloud), cloud cover radiometer | ....................................... |

12 a) Mention any two components of soil. **(2marks)**

b) The table below shows different types of soils, explain how they are used for different human activities. **(8marks)**

|  |  |
| --- | --- |
| **Types of soils** | **Its role for human activities.** |
| Sandy soil | .................................................................................... |
| Clay soil | ...............................................................................  . |
| Silty soil | ................................................................................ |
| Loam soil | .............................................................................. |

13 a) Distinguish between weather and climate. **(2marks)**

b) Briefly describe the impact of weather and climate on human activities **(8marks)**

14 a) Define the following terms:

(i) Population structure. **(2marks)**

(ii) Population density. **(2marks)**

b) Why does the government of Rwanda conduct a census every 10 years? **(6marks)**

15 a) Differentiate between landslides and earthquake. **(4marks)**

b) Explain the effects of volcanic eruptions to human activity. **(6marks**