THE PRESIDENT’S OFFICE  
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT  
ARUSHA CITY COUNCIL 
FORM THREE MID-TERM EXAMINATION, SEPTEMBER 2019 
GEOGRAPHY

INSTRUCTIONS:  
Time: 3Hours

• This paper consist of section A, B, and C
• Answer all questions in Section A and B and two (02) questions from section C
• Calculator and Cellular phones are not allowed in Examination room.
• Write your examination number /Name on every page of your answer sheet

SECTION A (15 MARKS)

1. For each of the item (i) – (x) choose the correct answer from among the given alternative and write its letter besides the items number in the answer sheets provided.

i) The summit of Mount Kilimanjaro which is 5895 meters above sea level is permanently covered with ice due to the fact that the temperature decrease with an increase in altitude at the rate of
   (A) 0.06°C for every 100M  
   (B) 0.06°C for every 1000M  
   (C) 0.6°C for every 100M  
   (D) 1.6°C for every 100M

ii) What is the longitude of Morogoro if its local time is 10:00pm, where the longitude of Accra in Ghana is 0° and local time is 7:00pm?
   (A) 45°E  
   (B) 45°W  
   (C) 35°E  
   (D) 35°W

iii) Soil texture refers to:-
   (A) Arrangement of soil particles  
   (B) Size of individual soil particles  
   (C) Soil catena  
   (D) Grained structure

iv) The line drawn on a Map to join the places with the same rainfall is called
   (A) Isobars  
   (B) Isohyets  
   (C) Isohel  
   (D) Isotherm

v) Lunar eclipse occurs when:
   (A) The Moon passes between the earth and the sun  
   (B) The Earth passes between the moon and the sun  
   (C) The sun passes between the moon and the earth  
   (D) The moon, the earth and the sun are in rotation

vi) The discordant feature which does not follow the rock strata is called
   (A) Batholith  
   (B) Lopolith  
   (C) Dyke  
   (D) Sill

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vii) It takes place when the rock with homogenous structure breaks into rectangle due to change in temperature
   (A) Exfoliation  
   (B) Block disintegration  
   (C) Gradual disintegration  
   (D) Frost shattering  

viii) The rainfall that occurs when the air moves towards a hill or Mountain is called
   (A) Cyclonic rainfall  
   (B) Orographic rainfall  
   (C) Convectional rainfall  
   (D) Typhoon rainfall

ix) Mountain formed due to the relative sinking of the area around a fault-bounded block is called
   (A) Fold Mountain  
   (B) Block Mountain  
   (C) Volcanic Mountain  
   (D) Residual Mountain

x) Soil alkalinity or acidity is measure by
   (A) Soil PH  
   (B) Soil colour  
   (C) Soil Profile  
   (D) Soil catena

2. Match the items in List A with the response in List B by writing the letter of the correct response beside

<table>
<thead>
<tr>
<th>LIST A</th>
<th>LIST B</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Formed when basic lava is poured on the surface and sweeping to occupy a large area</td>
<td>A. Geysers</td>
</tr>
<tr>
<td>ii) It involve lava coming out through cracks or faults</td>
<td>B. Fumerole</td>
</tr>
<tr>
<td>iii) Start taking place when volcanic eruption is approaching its end</td>
<td>C. Shield Volcano</td>
</tr>
<tr>
<td>iv) It is a Volcano which emits carbon dioxide (CO2)</td>
<td>D. Hot Spring</td>
</tr>
<tr>
<td>v) It is a volcano which emits steam, Mud and several gases than Sulphur</td>
<td>E. Moffete</td>
</tr>
<tr>
<td></td>
<td>F. Solfatara</td>
</tr>
<tr>
<td></td>
<td>G. Minor Volcanic feature</td>
</tr>
<tr>
<td></td>
<td>H. Fissure Eruption</td>
</tr>
<tr>
<td></td>
<td>I. Ash and Cinder cone</td>
</tr>
</tbody>
</table>

SECTION B (55 MARKS)

Answer all questions in this section

3. Carefully study climatic data for station x and answer the questions that follows

<table>
<thead>
<tr>
<th>MONTH</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAINFALL (MM)</td>
<td>198</td>
<td>337</td>
<td>435</td>
<td>351</td>
<td>279</td>
<td>221</td>
<td>159</td>
<td>71</td>
<td>16</td>
<td>68</td>
<td>23</td>
<td>84</td>
</tr>
</tbody>
</table>

a) Calculate the annual range of temperature
b) Calculate the annual Mean rainfall
c) Present the climatic data of station X in climograph
4. (a) Define the following terms as used in survey
   i) Surveyor  iv) Reconnaissance survey
   ii) Follower  v) Plane table survey
   iii) Leader

(b) (i) What is Earthquakes
   (ii) Mention five effects of Earthquakes

5. Write short notice on the following
   a) Solar Energy  d) Mass wasting
   b) Rotation  e) Barometer
   c) Ocean Current

6. With a well labeled diagram. Illustrate soil profile with its characteristics.

7. (a) With example define the term scale as used on the map

(b) A visitor from Europe came to Tanzania by using a map and visited different areas in Tanzania. From this concept analyze three ways of expressing Map Scale

(c) In a Map work, area measured or calculated can be regular or irregular shapes. From this concept outline three ways of calculating areas of Irregular shape.

(d) Given that Map distance is 15cm and the scale of the Map is 1:50,000. Calculate the actual ground distance in km.

(e) Given that full squares = 3 and half squares = 5 and the scale of the Map = 1:50,000. Calculate Area in km²

SECTION C (30 MARKS)
Answer only two (2) questions from this section

8. Describe six (06) significance of Natural gas from Songosongo in Tanzania

9. “Despite of the strategies used by Tanzania Government on Improving Industrial base, still there are poor policies on Industrial pollutant reduction” Elaborate ways of managing Industrial pollutants to the environment.

10. Explain the Main characteristics of nomadic pastoralism in East Africa and suggest the main ways of improving nomadic pastoralism in the Region.