**ST.MARIE EUGENIE GIRLS’ SECONDARY SCHOOL**

**QUESTIONS FOR REFLECTION 2020**

**GEOGRAPHY 1 FORM SIX**

**Topic: STUDY OF SOIL**

1. Describe the term soil and soil profile
2. Show the relationship between soil and rocks
3. Explain the importance of soils
4. Explain soil constituents of soils and show the importance of each
5. Describe the factors for soil formation, by considering active and passive factors for soil formation
6. With aid of diagram describe how soil can change down slope.
7. Explain the characteristics of a hypothetical matured soil profile
8. Show the characteristics of immature soil profile
9. With aid of a diagram describe soil profile by considering the characteristics of soil horizons.
10. Soil is an open system where materials and energy are gained and lost through its boundaries. Discuss.
11. The depth of soil and each horizon vary at different sites why.
12. Explain soil properties
13. What are the significance of soil texture
14. How can soil texture affects influence agricultural activities
15. Explain types and the importance of soil structure
16. What is humus, show its importance in the soil
17. Describe the factors that influences the rate and the amount of organic matter in the soil
18. When visiting to the fields, explain the variables which are important in studying soil.
19. Explain different sources of soil moisture and show its importance in the soil
20. Define soil air and show its functions in the soil
21. Explain the importance of living organisms in the soil
22. What is soil reaction
    1. Draw a diagram to show soil pH scale
    2. Describe the causes and effects of soil acidity and alkalinity
    3. Show the various methods which are used to balance soil pH
23. Show the significance of soil pH.
24. What is soil temperature, what are the significances of soil temperature.
25. Describe the processes involved in soil formation, show active and passive processes.
26. Discuss the systems of soil classification
27. With examples describe zonal soils
28. Show the characteristics of zonal soils
29. With examples describe Intrazonal soils.
30. Show the properties of Intrazonal soils
31. With examples describe Azonal or skeletal soils.
32. Show the characteristics features of Azonal soils.
33. Examine the characteristics of Chernozem soils.
34. What are the characteristics of Podzols.
35. Explain why soil classification is important.
36. What is the weakness or problems or defects of soil classification systems.
37. What is soil fertility, describe the factors influencing soil fertility.
38. What is soil infertility; explain the main causes of soil infertility.
39. What is soil erosion, show the types of soil erosion, soil erosion can best be described as accelerated erosion, discuss.
40. Fertile soils is not necessarily productive soils, discuss.
41. Show the main methods of soil conservation techniques.
42. Explain the advantages of mulching
43. Show the advantages of liming
44. What are the various sources of soil pollution.
45. What are the effects of soil pollution
46. Suggest ways which can be used to minimize soil pollution.
47. Soil is a product of its own environment, discuss.
48. Classify the types of soils by texture.
49. Examine the indicators of soil infertility.
50. What are the variables to be considered when examining soil fertility.
51. Show the impacts of fertile soils and infertile soils in flora and the human life.
52. Identify the indicators for loss of soil fertility.
53. Examine the factors for soil degradation
54. Describe the consequences of soil degradation.
55. Differentiate between soil conservation and soil management.
56. Show the various practices of soil management and conservation.
57. What is soil nutrients, examine the main source of soil nutrients.
58. Explain the processes by which brown earth soil is formed, what are the characteristics of brown earth soil.
59. Explain how soil texture and soil structure can affect farming.
60. What is soil catena, explain why and how soil depth varies down a slope of catena, peat can develop in both highland and low land of catena explain how this happens.
61. With reference to developing countries explain why farmers need to manage their soils more carefully if farming is to be sustainable.
62. Pedologists use calorimeter method to measure the concentration of hydrogen ions by the soil colloid because it is essential to farmers. Discuss.
63. The soil formation is product of its own environment. Discuss
64. Describe the six (6) merits of mulching.
65. Give the general classification of zonal soil and provide six characteristics of zonal soil (features).
66. Describe classification of zonal soils.
67. Soil profile development varies from one place to another, depending on the variation in climate conditions. Verify this statement.
68. Describe how soil properties related to soil fertility. (8 points)
69. “The deficiency of plant nutrients in the soil is the result of soil impoverishment”. Explain seven causes of soil impoverishment.
70. Liming is the one among the proper methods of improving soil productivity. In the light of this statement explain **eight** significance of liming in the soil development.
71. Describe the type of soils according to empirical system.
72. Describe the principal result of soil leaching. (6 points).
73. The fertile soil is not necessary productive. Discuss
74. Describe the different strategies undertaken to control and manage loss of soil fertility. (8 points).
75. “Translocation of soil materials is one of the soils forming process explains six (6) mechanism of soil material translocation.
76. Describe the simple process for soil formation.
77. Describe the complex process for soil formation.
78. Define soil, and explain why it is regarded as a living entity.
79. Provide an analytical account on the soil constituent.
80. Identify and explain the physical and chemical properties of soil.
81. Identify and explain various criteria used in soil classification.
82. How soil classification is important to farmers.
83. Show the variables, which control the soil formation (development of the soil profile).
84. State why Chernozem soil are ideal for agriculture.
85. Explain why soil with crumbly structure are the most productive as far as agriculture is concerned.
86. Analyze the role of the parent rock and soil biota in the soil formation.
87. Distinguish between normal geological and accelerated soil erosion.
88. What, do you think, is the rationale behind soil conservation.
89. Using an example from a named area of your choice, explain how it was affected by soil erosion and show different methods, which were used or are used in conserving soil.
90. Identify and explain the salient effects of soil erosion.
91. Show the factors, which hamper or constrain the soil conservation process in Tanzania.
92. Show the relationship between soils and their formation process, and the variation in climate and vegetation.
93. Define soil pollution and show its effects.
94. Explain the characteristics of fertile soil.
95. Show various mitigation measures against soil pollution.
96. Write **short notes** on; Soil structure, soil profile, leaching, capillary action, soil colloids, soil catena, soil horizon, Cation exchange, sesquioxides and Podzols.

**TOPIC :WATER MASSES**

1. Describe features of underground water and karst scenery
2. Explain how underground water is formed
3. Identify types of underground water based on origin and location
4. Differentiate types of underground water
5. Describe hydrological cycle and show how it is related to underground water
6. Describe features that form hydrological cycle
7. Draw the diagram of hydrological cycle
8. Discuss the importance of underground water in life
9. Discuss the potential threats to underground water interms of pollution and use.
10. Show how underground water can be conserved
11. Define drainage systems, inland drainage systems, and drainage basins
12. Explain types of drainage systems
13. Differentiate drainage basins
14. Explain the types of inland drainage systems
15. Describe drainage basins and show its types
16. Differentiate between basins, catchment, discharge, regimes, capture and rejuvenation
17. Describe drainage patterns
18. Show how drainage patterns are related to rock types, rock structure and relief
19. Explain the importance of measuring river volume, depth, width and river length
20. Differentiate between lakes and swamps
21. Classify types of lakes
22. Explain the process of lake formation by erosion, deposition, and tectonic forces
23. Explain the importance of inland drainage
24. Explain the importance of surface water flow/run off
25. Explain the process of water percolation, show the factors that influences this process and its importance to the environment
26. Evaluate the economic importance of river basin in Tanzania and China
27. Describe wetlands and show the types of wetlands
28. Describe swamps and show the types of swamps and show the basis of your classification
29. Differentiate wetlands from swamps
30. Why wetlands are sometimes called waste lands
31. Wetlands are kidneys of the world discuss/ examine the functions of wetlands and swamps in the environment and in life.
32. Examine the importance of wetlands to the environment and life
33. Describe socio and economic activities taking place in wetlands
34. Describe oceans, seas and lakes and differentiate them on the basis of size and other factors
35. Categorize oceans
36. Describe major groups of ocean basins according to their depth size and boundaries
37. Explain types of marine resources and show its importance and uses
38. Determine the chemical composition of the oceans
39. Explain the sources of the chemicals in the ocean
40. Analyze the distribution of water in percentage by volume i.e. ocean water, underground water, rivers, swamps, glaciers
41. Examine the type of ocean movements
42. Describe the causes of ocean movements
43. Show the effects of ocean movements
44. Show the importance of ocean movements to life in the ocean and on land
45. What is ocean currents, show types of ocean currents and their influence in the ocean and on land
46. Examine the causes of ocean currents
47. Explain the types of coral reefs and how they are formed
48. Examine the condition for coral growth
49. Explain the importance of coral reefs to humans and other life forms
50. Differentiate types of coral reefs
51. Draw the world map and show the distribution of coral reefs
52. Evaluate the threats to coral reefs and how to manage those threats
53. What are the effects of coral reefs
54. Describe how water use influences life on earth
55. Show how water is missused in the society and suggest solutions
56. Examine how water use can result in user conflicts and suggest sustainable solutions
57. Identify water basin development projects in Tanzania and china and examine its advantages and disadvantages
58. Examine the impacts of water pollution
59. Show how water is polluted and show the magnitude of water pollution in Tanzania
60. Describe local and international measures which are taken to contain water pollution
61. Examine the practice of water harvesting and wise use of water
62. Examine the driving forces for water harvesting
63. Show how water can be used wisely for social and economic development
64. Examine the problems experienced in water harvesting and suggest ways of overcoming them.

**TOPIC: POSITION BEHAVIOUR AND STRUCTURE OF THE EARTH & DYNAMIC EARTH AND ITS CONSEQUENCES:**

1. Describe the shape of the earth and explain the factors that might have influenced it
2. Show the evidences which prove that the earth is round
3. Why the earth is not a perfect sphere, show the evidences which prove the oblatenes of the earth
4. Describe the characteristics of the earth’s crust
5. Show the concentric layers of the interior of the earth, show its chemical characteristics and the boundaries
6. Explain the role of gravity in the stability and dynamic state of the planet earth.
7. Describe the theory of isostasy, show how valid is this theory,
8. Explain the importance of the isostacy theory.
9. Describe the factors which maintain isostacy within the earth’s crust/ factors that contribute to equal standing of the earth’s crust.
10. Describe the theory of plate tectonics
11. Explain the main causes of plate motion
12. Explain the mechanism of plate motion and show the landforms which are formed along the plate boundary
13. Plate tectonics is a new version of continental drift theory, discuss
14. State the importance of plate tectonic theory.
15. Describe the types of plate boundaries and the landforms which are formed along these boundaries
16. Describe the theory of continental drift
17. State the evidences of continental drift theory/Argue for continental drift theory.
18. Explain the advantages and disadvantages of continental drift theory.
19. State the characteristics of igneous, metamorphic and sedimentary rocks
20. Describe types of rocks according to mode of formation
21. Describe the major characteristics of rocks, all types of rocks
22. Show the economic value of sedimentary rocks and igneous rocks
23. Show the importance and demerit of geological time scale.
24. Describe the events depicted by a geological time scale.
25. Describe types of rock according to geological time scale.
26. Present the meaning of earthquakes, epicenter, focus and earth quakes waves.
27. Describe the disaster caused by earth quakes.
28. Propose the precaution to minimize the impacts of earth quakes in the community.
29. Identify different forms of volcanism
30. Describe the impacts of nature of volcanic materials on the resultant land forms.
31. Give the reasons for the occurance of volcanic eruption/ account for factors for occurance of volcanic activities.
32. Point out the consequences /importance of volcanic activities (volcanic features).
33. Determine the difference between denudation and deposition.
34. Point out the different process involved in water erosion, wind erosion and ice erosion.
35. Describe the process of physical weathering and chemical weathering and the factors determine weathering process.
36. Describe types of mass wasting and factors influencing mass movements
37. The mass wasting is climofunction. Discuss
38. Describe the effects of denudation (mass wasting & weathering)
39. What are the different between weathering and mass wasting.
40. Describe types of faulting and its related landforms.
41. Describe types of folding and five landforms produced by folding.
42. Explain the theories which explain the formation of mountains/ fold mountain.
43. Describe nature and distribution of fold mountain
44. Explain the cons and pros of Fold Mountain.
45. Describe the erosion and deposition features formed by action of moving ice.
46. What are the theories explaining the formation of fold mountain.
47. Describe five types of glacial mass.
48. Glaciation is not bad. Justify
49. Describe the classification of coast.
50. Describe the landforms formed by emergent and submerged coast.
51. Describe the factors influence the strength of the wave.
52. Explain the factors affecting rate of wave erosion.
53. Describe the erosional and deposition features formed by wave erosion.
54. Explain the coastal evolutions and its characteristics.
55. Describe sea level changes and evidences of sea level changes.
56. Describe the desert fluvial(water action) landforms due to erosion and deposition.
57. Explain the wind (Aeolian) land forms produced by erosion and deposition.

**Topic: CLIMATOLOGY (space dynamic).**

1. Explain six importance of weather forecasting.
2. Differentiate between the following terms

Meteorology and Climatology,Weather and Climate, Atmospheric stability and atmospheric instability, Land breeze VS sea breeze, Anabatic wind VS katabatic wind , Sere VS prisere, Plant succession VS plant association, Secondary plant succession VS Autogenic plant succession, Easterly winds VS Westerly winds, Trade winds VS descending wind

1. Write short notes on the following terminology;
2. Heat budget,Albedo, Lapse rate, Jet stream, Biomes, Ecosystem, Biogeography. Monsoon wind
3. Describe how climate influence the human life. Eight (8) points.
4. Explain the eight factors that influence the weather and climate
5. Describe the composition of the atmosphere and its functions to the universe
6. Describe classification of atmosphere according to vertical structure.
7. Factors which determine the temperature of the earth’s surface. 8 points **OR** The temperature of a given area is determined by various factors, explain. **OR** The world temperature is static less. Justify this statement.
8. What are the factors affecting the amount of insolation on the earth’s surface.
9. Give an explanation of weather phenomena resulting from atmospheric instability.
10. What is meant by lapse rate? In what ways does the study of lapse rate assist in understanding of weather phenomena?
11. Explain the six causes of temperature inversion.
12. Describe the six types of temperature inversion.
13. Describe the factors which influence pressure distribution. Six points
14. Describe the World distribution of pressure system
15. Explain the factors influencing precipitation distribution
16. Describe four factors influencing the humidity and four impact of humidity.
17. What is fog? Describe five types of fog.
18. Describe eight effects of ocean currents on the adjacent coastal land.
19. Describe factors that influence wind direction and strength
20. Describe the main global atmospheric pressure system and explain on how they are related to the surface winds
21. Explain six differences between cyclone and anticyclone
22. What is cyclone? Explain five characteristics of tropical cyclone.
23. What is monsoon wind? Explain six effects of monsoon wind
24. Describe the classification of air masses. Six point
25. Describe the classification of clouds.
26. Describe different criteria used in classifying climate. (six point)
27. Describe weakness of all classification systems
28. Describe climate classification according to Koppens
29. Explain five characteristics of equatorial climate and five characteristics of tropical continental climate.
30. What are salient features of the world distribution of precipitation? Write six (6) points.
31. Explain five Main features of tropical grassland and five main features of hot desert.
32. Explain eight (8) characteristics of the tropical rain forest
33. Describe the difference between tropical evergreen forest and coniferous forest (six points).
34. Examine the characteristics of the tropical monsoon climate. Write six points
35. Account for the location of hot deserts and explain how plants are adapted to this hostile environment.
36. Explain the human and physical factors that influence the formation of desert.
37. Mountains make their own climate. Discuss
38. Describe the classification of plants according to their water economy (5 points)
39. Describe the factors which control the growth and distribution of vegetation/biomes.
40. Describe six causes (theories) of climatic changes.
41. What is a climatic change? Describe the evidences which explain and clarify the climatic changes.
42. Discuss the environmental impacts of greenhouse effect and the global warming.