

FORM THREE DECEMBER HOLIDAY ASSIGNMENT

Instruction: attempt all the questions below

Week 1

1. (a) (i) Distinguish between earth rotation and earth revolution (2 marks)
(ii) State three effects of earth's revolution (3 marks)
(b) (i) Give four characteristics of mesosphere in the structure of the atmosphere (4 marks)
(ii) Describe the origin of continents according to continental drift theory (4 marks)
(c) (i) Explain three proofs that the earth is spherical (6 marks)
d) Using a well labeled diagram, describe the occurrence of lunar eclipse (6marks)

2. (i) what is faulting (2 marks)
(ii) Apart from Block Mountains, identify three features that result from faulting (3marks)
(b)(i) Name three major Rift valley in the world (3marks)
(ii) Use a well labeled diagram; describe how the Gregory rift valley may have been formed through Anticlinal arching (8 marks)
c)(i)Name two lakes within the western section of the great rift valley (2 marks)
(ii) Explain Three negative influence of faulting on human activities (6 marks)

Week 2

3. (a)(i) Define the term River (2 marks)
(ii) State three factors that affect the rate of River erosion (3 marks)
(b) Describe the following processes of river transportation (6 marks)
(i) Solution
(ii) Suspension
(iii) Traction
(c)(i) Name three types of River erosion (3 marks)
(ii) Outline four conditions that favor river capture (4 marks)
d) Your form three student intends to carry out a field study of a river at mature stage
(i) State three ways they would prepare (3 marks)
(ii) Give four feature they are likely to observe (4 marks)

Week 3

4. a) i. Define term rock (2mks)
 ii. State four characteristics of minerals (4mks)
 b) i. Explain three ways metamorphic rocks are formed (6mks)
 ii. Give three examples of metamorphic rocks (3mks)
 c) i. Outline the steps necessary for the formation of mechanically formed sedimentary rocks (4mks)
 ii. Explain three significance of rocks to man (6mks)
5. a) i. Explain how the following factors influence the distribution of natural vegetation of a Place
 - Climate (2mks)
 - Altitude (2mks)
 - Man's activities (2mks)
 ii. Highlight the characteristics of equatorial climate (4mks)
 iii. State four characteristics of convectional rainfall (4mks)

a) i. On the outline map of the world



- Name the region marked S,T,U that experience Mediterranean type of climate (3mks)
 ii. Name the currents A,B,C,D (4mks)
 c) i. Name two types of Natural forests (2mks)
 ii. Mention two places in the world where temperate grasslands are found in the world (2mks)

week 4

6. a) i. Define mining (2mks)
ii. Identify four forms in which minerals occur (4mks)
- b) i. From the minerals listed below name one area in East Africa where they are mined
- Copper (1mk)
 - Diamond (1mk)
 - Limestone (1mk)
 - Titanium (1mk)
- c) i. List three underground mining methods (3mks)
ii. Explain three significances of minerals to the Kenyan economy (6mks)
- a) i. Name two countries in the Middle East that produces petroleum in large quantities (2mks)
ii. State four effect of mining on the environment (4mks)

week 5

7. The table below shows the production of maize in tonnes between 2015 and 2017 in four divisions of Baringo County

| Division | 2015 | 2016 | 2017 |
|------------|------|------|------|
| Bartabwa | 3005 | 3500 | 4000 |
| Barwesa | 6087 | 6198 | 7786 |
| Kabartonjo | 6753 | 6547 | 6698 |
| Kipsaramar | 4078 | 5465 | 5567 |

- a) i) Calculate the percentage increase of the total maize production in the four divisions between 2016-2017 (3mks)
- ii) What is the difference in kilograms between the highest production and the lowest in three years? (2mks)
- b)i) Using a radius of 5cm draw a pie-chart to represent production of 2017 (6mks)
- ii) Give three advantages of using a pie-chart in representing information (3mks)
- c) State three climatic conditions favoring the growing of maize. (3mk)
- d) Explain four problems facing small-scale maize farmers in Kenya. (8mks)

8. The table below shows crop production in Kenya in tonnes for a period of five years.

| Crop/Year | 2010 | 2011 | 2012 | 2013 |
|-----------|------|------|------|------|
| Maize | 600 | 800 | 700 | 800 |
| Peas | 400 | 600 | 400 | 700 |
| Onions | 300 | 400 | 300 | 600 |
| Cabbages | 100 | 200 | 200 | 400 |

- a) i) Using a vertical scale of 1cm represent 200 tonnes present the above data using a compound bar graph. (9mks)
 ii) State three advantages of using compound bar graph as a method of data presentation. (3mks)
- b) Explain how the following factors influence horticultural farming in Netherlands
 i) Technology (2mks)
 ii) Marketing (2mks)
- c) State three features of horticultural farming in Netherlands. (3mks)
- d) Explain three difficulties that farmers in Kenya experience in marketing horticultural produce. (6mks)

week 6

9. a) i) What is forestry? (2mks)
 ii) Explain three factors that favour the growth of natural forests on the slopes of Mt. Kenya. (6mks)
- b) Name three exotic species of trees planted in Kenya. (3mks)
- c) State four ways in which the clearing of the forests has affected the natural environment in Kenya. (4mks)
- d) Discuss 3 challenges experienced in the exploitation of tropical hardwood forests in Kenya. (6mks)
- e) Give the differences in the exploitation of softwood forests in Kenya and Canada under the following sub-headings
 i) Period of harvesting (2mks)
 ii) Distribution of softwood. (2mks)
10. a) i) Name **two** varieties of coffee grown in western parts of Kenya. (2 marks)
 ii) Apart from being used as a beverage, state **two** other uses of coffee. (2 marks)
- b) State **three** physical conditions that favour coffee growing in the central highlands of Kenya. (3 marks)
- c) Describe the stages involved in coffee production from picking to marketing (8 marks)
- d) Explain **three** significance of coffee farming in Brazil. (6 marks)
- e) Your class intends to conduct a field study on coffee farming.
 i) State **two** preparations your class will make before the field study (2 marks)
 ii) Give **two** problems facing coffee farming the class will find out (2 marks)

**MERRY CHRISTMAS AND HAPPY NEW YEAR
 2025. #STAY SAFE**