

# WEST POKOT GEOGRAPHY FORUM

## SAMPLED MOCKS AND KCSE QUESTIONS ON MAPWORK

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### REVISION BOOKLET

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This document is composed of map work questions sampled from past KCSE and MOCK exams.

## MAP TITLES

1. KITALE
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## KITALE MAPS

1. Study the map of Kitale 1:50 000 (sheet 75/3) provided and answer the following questions.

- a) i) Give the longitudinal extent of the area covered by the map. (2mks)
- ii) Identify the two physical features found at grid square 2320. (2mks)
- iii) What is the magnetic inclination shown on the map. (2mks)
- b) What is the altitude of the highest point in the East of Easting 40 (1mk)
- c) Describe the drainage of the area covered by the map. (5mks)
- d) i) Give two methods used to represent relief on the map. (2mks)
- ii) Measure the distance of all weather road loose surface road from the grid point 370/40 to where it ends towards Cheragani. Give your answer in kilometers. (2mks)
- e) i) Citing evidence from the map, identify five social services offered in Kitale municipality. (5mks)
- ii) Give three types of natural vegetation found in the area covered by the map. (3mks)

2. Study the map of Kitale 1:50 000 (sheet 75/3) provided and use it to answer the questions that follow.

- (a) (i) What type of map is Kitale map? (1 mark)
- (ii) Apart from ratio scale, mention any other scale used in the Kitale map extract. (1 mark)
- (iii) Mention **two** districts on the area covered by the map. (2 marks)
- (b) (i) What is the **six** figure grid reference of the Trigonometrical station near Dafina Estate. (2 marks)
- (ii) Name one natural features on grid square 4323. (1 mark)
- (iii) What is the distance of the all weather road loose surface C638 from the junction at 4314 to Cherangani (4710). (Give your answer in kms) (2 marks)
- (c) (i) Determine the direction of Mc calls bridge from Kipsain police post. (1 mark)
- (ii) Estimate the area of Kitale municipality. (2 marks)

(d) Using a scale of 1 cm to rep 40 m, draw a cross section between 340270 to 420270. On it mark and label; All weather road, bound surface, Saiwa, steep slope. **(3 marks)**

(e) Citing evidence from the map explain **three** factors that have influenced settlements. **(5 marks)**

**3. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.**

(a) (i) Name **two** districts found in the area covered by the map. **(2 marks)**

(ii) What is the magnetic variation of the map? **(1 mark)**

(b) (i) Convert the scale of the map into a statement scale. **(2 marks)**

(ii) Calculate the area of land to the North and North East of the Loose Surface road C637 and B10/2 in the North Eastern corner of the map. **(Give your answer in square kilometres).** **(2 marks)**

(iii) Measure the distance of the Loose Surface Road C638 from grid reference 400137 and reference 472106. **(Give your answer in Kilometres).** **(2 marks)**

(c) Explain **three** factors which have influenced the distribution of settlements in the area covered by the map. **(6 marks)**

(d) Describe the relief of the area covered by the map. **(4 marks)**

(e) Citing evidence from the map, explain **three** factors that favour cattle rearing in Kitale area. **(3 marks)**

**4. Study the map of Kitale 1:5000 (sheet 75/3) provide and answer the following questions.**

(a) (i) What is the magnetic variation of the map? **(1 mark)**

(ii) Calculate the area of the land bounded by All Weather Road Loose surface C638, C641 and Dry weather road C637. **(2 marks)**

(iii) What is the six figure grid reference of the trigonometrical station in Kitale DC. **(2 marks)**

(b) (i) Give **two** methods used to represent relief on the map. **(2 marks)**

(ii) Citing evidence from the map, give **four** economic activities carried out in the area covered by the map. **(4 marks)**

(c) Draw a rectangle measuring 15cm by 10cm to represent the area enclosed by Eastings 24 and 33 and Northing 17 and 26. On the rectangle mark and name the following:

(i) River Koitobos

(ii) The All Weather Loose Surface road C641.

(iii) The seasonal swamp

(d) Describe the drainage of the area covered by the map. **(4 marks)**

(e) Students from Swerwa Secondary School are supposed to carry out a field study on vegetation in Kiptaber forest.

(i) Give **three** uses of vegetation they are likely to identify during the study. **(3 marks)**

(ii) State **three** problems they are likely to experience during the study. **(3 marks)**

**5. Study the map of Kitale 1:50,000 (Sheet 75/3) provided and answer the following questions**

a) i. Give the six grid reference of the Trigonometrical station at Kaibos **(2 Marks)**

ii. State two ways in which relief is represented in the map **(2 Marks)**

iii. Describe the relief of the area covered by the map **(5 Marks)**

b) Citing evidence from the map, identify two economic activities carried out in the map **(4 Marks)**

c) Using the map provided, identify four types of vegetation found in the map. **(4 Marks)**

d. Describe the drainage of the area covered by the map **(8 Marks)**

**6. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.**

(i) Identify two human made features found at the grid square 2320. **(2mks)**

(ii) What is the altitude of the highest point in the area covered by the map? **(2mks)**

(iii) Give three types of natural vegetation found in the area covered by the map. **(3mks)**

(b) (i) What is the bearing of the air photo principal point at grid square 3426 from the air photo principal point at grid square 2931? **(2mks)**

(ii) Measure the distance of the dry weather road (C640) from the junction at point M (345142) from the junction at point N (416201) Give your answer in kilometers. **(2mks)**

(c) (i) Using a scale of 1 cm to represent 40 meters, draw a cross-section from grid

reference 410180 to grid reference 500180. (4mks)

(ii) On the cross-section mark and name the following:

• a dry weather road; (1mk)

• River Kaptarit (1mk)

• a ridge, (1mk)

(iii) Calculate the (VE) vertical exaggeration of the section.

(d) Citing evidence from the map, identify five social services offered in Kitale.

(i) Name **two** types of submerged highland coasts. (2mks)

(ii) Identify **two** resultant features of the emerged highland 'coasts. (2mks)

**7. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.**

(a) (i) Identify the two human made features found at the grid square 2320. (2 marks)

(ii) What is the altitude of the highest point in the area covered by the map? (2 marks)

(iii) Give **three** types of natural vegetation found in the area covered by the map. (3 marks)

(b) (i) What is the bearing of the Air Photo Principal Point at grid square 3426 from the Air Photo Principal Point at grid square 2931? (2 marks)

(ii) Measure the distance of the dry weather road (C 640) from the junction at point M (345142) to the junction at point N (416201). Give your answer in Kilometers. (2 marks)

(c) (i) Using a scale of 1 cm to represent 40 metres, draw a cross section from grid reference 410180 to grid reference 500180. (4 marks)

(ii) On the cross-section, mark and name the following:

• a dry weather road; (1 mark)

• River Kaptarit; (1 mark)

• a ridge. (1 mark)

(iii) Calculate the vertical exaggeration (VE) of the section. (2 marks)

(d) Citing evidence from the map, identify five social services offered in Kitale Municipality. **(5 marks)**

**8. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.**

(a)(i) What is the six figure grid reference of the trigonometrical station in Kitale DC. **(2 marks)**

(ii) Give **two** districts found in the area covered by the map. **(2 marks)**

(iii) Measure the distance of Suwerwa river in the South Western part of the area covered by the map. (Give your answer in kilometers) **(2 marks)**

(iv) Calculate the area of land covered by Kitale Municipality. (Give your answer in square kilometers). **(2 marks)**

(b) Using a vertical scale of 1cm represent 100metres draw a cross section along northing 28 from Easting 35 to Easting 41. **(2 marks)**

(i) On the cross section mark and name.

• Footpath **(1 mark)**

• River Saiwa **(1 mark)**

• Steep slope **(1 mark)**

(ii) Calculate the vertical exaggeration (V.E) of the section. **(2 marks)**

(c) Describe the relief of the area covered by the map. **(4 marks)**

(d) Citing evidence from the map, give **three** reasons why cattle rearing is carried out in Kitale area. **(6 marks)**

**9. Study the map of Kitale 1:50,000 (Sheet 75/3) provided and answer the following questions.**

(a) (i) Give the longitudinal extent of the area covered by the map. **(2mks)**

(ii) Identify the settlement patterns found on the Northern area covered by the map. **(3mks)**

(b) (i) Measure the distance of the Kitale Municipality boundary. Give your answer in kilometers. **(2mks)**

(ii) What is the bearing of the Air photo principal point on the grid square 2912 from the Air photo principal point on grid square 3516. **(2mks)**

(c) (i) Draw a rectangle 15cm by 9cm to represent the area East of Easting 40 and North of Northing 20. **(1mk)**

(ii) On the rectangle mark and name.

• Road C640. **(1mk)**

• River Kapsara. **(1mk)**

• Rogurr hill. **(1mk)**

- District boundary. (1mk)
- (iii) Calculate the area to the East of the District boundary and to the South of Northing 23. (2mks)
- (d) (i) Identify **two** types of vegetation found in the area covered by the map. (2mks)
- (ii) Describe the drainage of the area covered by the map. (5mks)

## TAITA HILLS MAP

**1. Study the map of Taita Hills 1:50,000 (sheet 189/4) provided and answer the following questions.**

a) i) What is the bearing of the peak of Mwatunge hill in grid square 3214 from water tank in grid square 2619 (2 marks)

ii) What is the length in kilometres of the section of the Mwatate - Voi railway line in the south-eastern part of the map? (2 marks)

b) Draw a rectangle measuring 16cm by 12cm to represent the area enclosed by the eastings 24 and 40 and Northings 20 and 30. (1 mark)

On the rectangle, mark and name the following features.

- Mgange hills (1 mark)

- A rock outcrop (1 mark)

- All weather road, bound surface (1 mark)

- River Ruhia (1 mark)

- Ronge forest (1 mark)

c) Using evidence from the map, explain three factors that have favoured the establishment of the Taita Sisal estates in the Southern part of the area covered by the map. (6 marks)

d) i) Describe the distribution of settlement in the area covered by the map. (5 marks)

ii) Citing evidence from the map, give two economic activities carried out in the area covered by the map other than sisal farming. (4 marks)

**2. Study the map of Taita Hills 1:50,000 (Sheet 189/4) provided and answer the following questions.**



- a) i) Give the **four** figure grid reference of L.R 3880/s (2mks)
- ii) What is the general direction of R. Ruhia tributary of R. Voi (Goshi) (2mks)
- b) i) Give the adjoining sheet of Taita Hills on the North Coast part of the map. (2mks)
- ii) Measure the length of the Bound surface Road A23 from Mwatate to LC (Level Crossing) (2mks)
- iii) Calculate the area of the forest covering Shellemba and Majengo Zones (3mks)
- iv) Citing evidence from the map, identify three economic activities carried in the area (6mks)
- c) Citing evidence from the map, explain any **four** factors that may have influenced Agricultural activities in the Area (8mks)

**3. Study the map of Taita hills, 1:50,000 sheet (189/4) provided and answer the question that follows.**

- (a) (i) Identify **two** types of scales used in the map. (2marks)
- (ii) Convert the map scale into statement scale. (2marks)
- (iii) Name **three** types of relief features shown on the map. (3marks)
- (iv) Calculate the area covered by the Ronge forest (2marks)
- (b) (i) Describe the distribution of settlement in the area covered by the map. (2marks)
- (ii) Using evidence from the map, identify **three** economic activities taking place in the area covered by the map. (3marks)
- (c) Using a scale of 1cm represents 40 m, draw a cross-section along Easting 42 from Northing 14 to 20. (5marks)
- (i) On it, Mark and name the following: (2marks)
- A railway line
  - River voi.

**4. Study the map of Taita hills 1:50, 000 (sheet 189/4) provided and answer the following questions:**

- (a) (i) What is the bearing of the peak of Mwatunge hill in grid square 3214 from the water tank in grid square 2619? (2 marks)

(ii) Give the latitudinal and longitudinal position of the South East corner of the map extract. (2 marks)

(iii) Calculate the area of Teita Sisal Estate. (2 marks)

(b) (i) Give **three** types of natural vegetation found in the area covered by the map. (3 marks)

iii. Identify **two** forms of land transport found in the area covered by the map. (2 marks)

(c) (i) Using a vertical scale of **1cm to represent 40 meters**, draw a cross-section along the northing 19 from Easting 33 to Easting 40. (4 marks)

(ii) On it mark and name the following (3 marks)

- A steep slope
- River
- Hill

(d) (i) Describe the distribution of settlements in the area covered by the map. (5 marks)

(ii) Citing evidence from the map, give **two** economic activities carried out in the area covered by the map other than sisal farming. (2 marks)

**5. Study the map of Taita Hills 1 : 50,000 (sheet 189/4) provided and answer the following questions.**

(a) (i) What type of map is Taita Hills map extract. (1mk)

(ii) Give two scales that have been used in the map extract. (2mks)

(iii) Identify two features in the grid square and 24/9. (2mks)

(iv) Measure the length of the all weather road loose surface from Maktau to the grid square 2525. Give your answer in kilometres and metres. (2mks)

(b) Draw a rectangle measuring 12cm by 6cm to represent the area enclosed by Eastings 25 to 31 and Northings 20 to 23. (1mk)

- Dry weather road (1mk)
- Dam (1mk)
- Rock outcrop (1mk)
- Prison (1mk)

(c) (i) Describe the drainage of the area covered by the map. (6mks)

(ii) Identify three natural vegetation in the area covered by the map. (3mks)

(d) Citing evidence from the map extract; identify four economic activities from the area covered by the map. (4mks)

**6. Study the map of Taita Hills (1:50,000) provided and answer the following questions.**

a) What was the magnetic declination when the map was drawn? (1mk)

b) i) Measure the length of the all weather road (bound surface) from Wundanyi town to the southern edge of the map. Give your answer in kilometers. (1mks)

ii). Calculate the area of Taita Sisal Estate. Give your answer in square kilometres. (2mks)

iv) Name three types of natural vegetation shown in the area covered by the map. (3mks)

c) i) Using a scale of 1cm reps 100m, draw across section from Easting 31 to Easting 37 along northing 19 (3mks)

On the cross section, mark and name

i) River (1mk)

ii) Footpath (1mk)

iii) A Hill (1mk)

ii) Calculate the Vertical Exaggeration of the Cross section. (2mks)

iii) Give the six figure reference of the school in Mrabenyi. (1mk)

d) Citing evidence from the map, mention four functions of Wundanyi township. (3mks)

e) Describe the drainage of the area covered by the map. (6mks)

**7. Study the map of Taita Hills (1:50,000) provided and answer the questions that follow**

a) Convert the scale of the map into a statement scale. (2mks)

b) Calculate the area of Ronge forest on the Northern part of the map. (2mks)

c) What is the magnetic declination of the map as per 1991? (2mks)

d) Give two methods that have been used to represent relief in the area covered by the

map. (2mks)

e) State three types of vegetation found in the area covered by the map. (3mks)

f) Draw a rectangle measuring 16cm by 12cm to represent the area enclosed by Eastings 36 and 44 and Northings 14 and 20. On the rectangle mark and name the following features

i) Thicket

ii) Sisal Estate

ii) River and Bridge (5mks)

g) Students from Shelemba School carried out a field study on the course of River Voi (Goshi)

i) Name two natural features the students identified along the course of River Voi (Goshi). (2mks)

ii) State the stage of the river and give the evidence they gave. (2mks)

h) Describe the drainage of the area covered by the map. (5mks)

**8. Use the map of Taita hills 1:50,000 (sheet 189/4) provided and answer the questions below.**

(a) Measure the length of dry weather road, D535, from the junction at grid 4028 to the east of the maps. (2 marks)

(b) What is the bearing of the pump house at grid 2918 from mwaturaje in grid 3215? (2 marks)

(c) Calculate the area of the region below the all-weather road; bound surface A23 in the South East of map. (2 marks)

(d) What is the magnetic declination of the map by the time the map was published? (2 marks)

(e) Discuss the drainage of the area covered by map. (5 marks)

(f) Citing evidence from the map, state three social services offered in the area covered by the map. (3 marks)

(g) (i) Reduce the square by 2 within northings 26 and 31 and between eastings 37 and 42. (1 mark)

(ii) In it, indicate:-

-Ronge forest (1 mark)

-road D535 (1 mark)

-water reservoir (1 mark)

-out crop rock. (1 mark)

(iii) What is the new scale after reduction? (2 marks)

(h) Highlight **two** types of vegetation in the area covered by the map. (2 marks)

**9. Study the map of Taita hills 1:50,000 (sheet 189/4) provided and answer questions while follows.**

a) i) Give the latitudinal position of the South Eastern corner of the map extract (2mks)

ii) State the four figure grid reference of the school at Mrabenyi (1mk)

iii) Identify the adjoining sheet number to the S.E of Taita hills (1mk)

b. i) Measure the length of dry weather road D535 from the junction at grid 4028 to the east of the map (2mks)

ii) Calculate the area enclosed by the railway line to the south Eastern part of the map (2mks)

c. i) Reduce the square enclosing Easting 37 to 42 and Northing 26 to 31 by 2, on the reduce square indicate the following.

-Ronge forest

-Road D535

-Outcrop rock (5mks)

ii) Give the new scale of the reduced square (2mks)

d. i) Describe the drainage of the area covered by the map (4mks)

ii) Identify two methods of representing relief used in the map extract (2mks)

iii) Citing evidence from the map give two economic activities carried out (4mks)

**10. Study the map of Taita Hills 1:50,000 (189/4) provided and answer the questions that follows**

- a (i) Identify the Province and the District shown on the map. (2marks)
- (ii) Which **two** methods of showing relief have been used in the map? (3 marks)
- b. (i) Calculate the area covered by Ronge forest. (2marks)
- (ii) Give **two** natural features found in the grid square 3419. (2marks)
- (iii) Calculate the bearing of the church in grid square **3218** from the school in grid square **3522**. (2marks)
- c. (i) Using a vertical scale of **1cm** to represent **100 metres**, draw a cross section between Grid reference 300190 and grid reference 360190. (4marks)
- (ii) On the cross section, mark and label the following features; (4 marks)
- i. A hill
  - ii. A river
  - iii. Thicket
  - iv. Main track (motorable)
- (iii) Calculate the vertical exaggeration of the cross section. (2marks)
- (d) Citing evidence from the map, explain two factors influencing the distribution of settlement in the area covered by the map. (4 marks)

## OYUGIS MAP

1. Study the map of Oyugis 1:50000 (sheet 130/1) provide and answer the following questions.

- a) i) Name **two** physical features found in grid square 8728. (2mks)
- ii) Give the six figure grid reference of trigonometrical station  $\nabla$  130 S 34681. (2mks)
- iii) Give the location of Sango School using latitudes and longitudes. (2mks)
- b) i) Measure the length of road D216 from Somro market to the junction at Ndiru Dispensary along road E212 in kilometres. (2mks)
- ii) Calculate the area to the north east enclosed by all-weather road bound surface A1 and north of the District boundary. (2mks)
- c) Draw a rectangle measuring 12cm by 6 cm. (1mk)

On the rectangle drawn, mark and name the features enclosed by eastings 77 and 83 and northings 21 and 24:

- Road D215 (1mk)
- Cattle Dip (1mk)
- District Boundary (1mk)
- Air photo Principal +55 (1mk)
- Brick Works (1mk)

- d) Describe the drainage of the area covered by the map. (5mks)
- e) Citing evidence from the map, give **two** social services. (4mks)

2. Study the map of Oyugi's 1:50,000 (130/1) and answer the questions that follow

- a)i. Give the six-figure grid reference of the trigonometrical station (other) 130T. 18 at Bomorenda (2mks)
- ii. Calculate the bearing of the cattle dip in grid square 7923 from the spot height in grid square 7728 (2mks)
- iii. Measure the distance of the loose surface road from the junction at Suneka through

Riana to the junction at Rangi (8230). Give your answer in kilometers. (2mks)

iv. Identify three types of vegetation in the area covered by the map (3mks)

v. What is the vertical interval of the map (1mk)

b) Draw a rectangle measuring 16cm by 14cm to represent the area bound by 8620, 9520 and 8627, 9527 (1mk)

On the triangle mark and label the following features

• Township boundary (1mk)

• All weather road (Bound surface) (1mk)

• Air strip (1mk)

• Trigonometrical station (1mk)

c) Describe the settlement in the area covered by the map (5mks)

d) Citing evidence from the map, identify five social activities carried out in Oyugi's area (5mks)

**3. Study the map of Oyugis 1:50,000 (sheet 130/1) provided and answer the following questions.**

(a) (i) What type of map is Oyugis map extract? (1mk)

(ii) Give two types of scales that have been used in the map extract (2mks)

(iii) What is the longitudinal extent of the area covered by the map (2mks)

(iv) What is the latitudinal location of the air strip (2mks)

(b) (i) Identify the methods that have been used to represent relief of the area covered by the map (2mks)

(ii) Name the physical features found in grid square 6842 (4mks)

(iii) Identify the index to the adjoining sheet of Oyugis to the East (1mk)

(iv) Calculate the area to the East of Easting "90" and south of Northing 24 (2mks).

(c) (i) What is the height of God Nyajanja hill? (2mks)



(ii) Describe the drainage of the area covered by the map (6mks)

(iii) Apart from the forest vegetation, name one other type of vegetation growing in the area represented by the map. (1mk)

**4. Study the map provided (Oyugis 1:50,000 sheet 130/1) and answer the following questions.**

(a) (i) What is the position of Kisii Township by latitude and Longitude? (2 marks)

(ii) What is the direction of Okota School (grid reference 679211) from Nyangao School (gridreference 753240) (2 marks)

(b) (i) What is the length in kilometres of the district boundary shown in the map? (2 marks)

(ii) What is the area in square km of the land enclosed by Kodera forest boundary? (2 marks)

(c) Describe the drainage of the area covered by the map. (6 marks)

(d) (i) Citing evidence from the map, explain why brick – making is widespread activity in Oyugis. (6 marks)

(ii) Give two methods used in representing relief on the map extract. (2 marks)

(e) Citing evidence, name three crops which are grown in the area covered by the map.

(3 marks)

**5. Use the map of Oyugis (1:50000) sheet 130/1 provided and answer the question**

a) With reference to scale, identify **three** types of maps (3mks)

b) i) **Give** the latitudinal extend of the map (2mks)

ii) **Give** the six grid reference of Nyachenge coffee factory in south part of area covered by the map (2mks)

iii) **What** is the general flow of River Riana (2mks)

c) Reduce the region enclosed within Easting's 82 and 88 and Northing's 35 and 40 by **scale factor a half** and on it mark (2mks)

i) Kodera forest (2mks)

ii) Secondary trig station (2mks)

iii) All weather surface road (c18) (2mks)

d) Citing evidence from the map, identify **four** economic activities carried out on the map (8mks)

**6. Study the map of OYUGIS 1:50,000 (sheet 112/1/S) provided and answer the following questions.**

(a) (i) Identify TWO physical features at grid square 7334 (2marks)

(ii) What was the magnetic variation as at 1995? (1mark)

(b) (i) Measure the distance of the all-weather road loose surface marked C1 8 from the junction at Imbo to the junction at Rangwe. (Give your answer in kilometers) (1mark)

(ii) Calculate the area of the land bound by *the dry weather roads* from Migori Market, Nyangiela market, Kotieno kochich, Grid Square 8239 and back to Migori Market. (2marks)

(iii) What is the bearing and direction of the trigonometric station [others] in grid square 7732 from the trigonometric station [secondary] at Got Matiti. (2marks)

(c) (i) Draw a sketch of 10cm by 10 cm, to represent the area bound by Eastings 80 and 90 respectively and Northings 30 and 40 respectively. On the sketch mark and name (2marks)

i. Dry weather Road from Rariw Market to Nyangiela (1mark)

ii. The district boundary (1mark)

iii. Koderia forest (1 mark)

ii) Calculate the new scale (1 mark)

(d) Describe the relief of the area covered by the map. (5 marks)

(e) Citing evidence from the map, State three reasons why the area covered by the map is suitable for agricultural activities (6marks)

**7. Study the map of OYUGIS 1:50000, (sheet 130/1) provided and answer the following questions.**

(a) (i) Give **two** types of scales on the map. (2 marks)

(ii) Give latitudinal and longitudinal extents of the area covered by the map. (2 marks)

(iii) What is the name of the map sheet adjoining Oyugis in the South East? (1 mark)

(b) (i) Identify the administrative boundary that runs from the North East to the South of the map. (1 mark)

(ii) What is the bearing of the school at Nyaburu from the cattle dip at Minyenya? (2 marks)

(iii) Measure the distance of the All Weather loose surface road C18 from the junction at Rodi Kopany to the junction at Imbo market. Estimate your answer in Km.

**(2 marks)**

(c) (i) Draw a cross section from grid reference 800340 to grid reference 840360. Use vertical scale of 1 cm represents 50 ft. (4 marks)

(ii) Along the cross-section mark and label the following.

- School (1 mark)
- Main track (motorable) (1 mark)
- River (1 mark)

(iii) Determine intervisibility of the end points on your cross section. (1 mark)

(d) (i) Citing evidence from the map, state **three** economic activities carried out in the area covered by the map. (3 marks)

(ii) Describe the relief of the area covered by the map. (4 marks)

## MARIAKANI MAP

1. Study the map of Mariakani 1:50,000(sheet 197/4) provided and answer the following questions.

(a)(i) Give four figure grid reference of GORA near North Samburu in the North Western part of the map **(2marks)**

(ii) Identify the adjoining sheet to the East of Mariakani Sheet **(1 mark)**

(iii) Measure the length of bound surface road A109 from the Eastern edge of the map to the junction with loose surface Road C107 at grid square 5273. Give your Answer in Kilometers **(2marks)**

(b)(i) What is the bearing of the Trigonometrical station at grid square 3880 from Air Photo principal point at grid square 3783. **(2marks)**

(ii) Identify three types of natural vegetation found in the area covered by the map **(3 marks)**

(c) Draw a rectangle 10cmx 8cm to represent the area bound by Easting 42 and 47 and Northings 61 and 65 **(1mark)**

On the rectangle mark and name the following;

(i) Loose surface road

(ii) River Matumbi

(iii) Drift

(iv) Location Boundary **(4 marks)**

(d) Identify one method used to represent relief in the area covered by the map **(2 marks)**

(e) Citing evidences from the map, give two economic activities in area covered by the map. **(4 marks)**

(f) Describe the drainage of the area covered by the map **(4 marks)**

**2. Study the map of Mariakani 1:50,000 (sheet 197/4) provided and answer the following questions**

(a) (i) What type of map is Mariakani sheet?

(b) Citing evidence from the map, explain three factors that favour cattle rearing in Mariakani area.

(c) Citing evidence, state three functions of Samburu town

(d) Some students are required to carry out a field study on water supply in south Samburu Division.

(i) State four problems they are likely to encounter in administering questionnaires to residents of the area.

(ii) Measure the length of a water pipeline proposed by the students from existing line at grid reference 303796 to Mwandoni settlement at grid reference 325720. Give your answer in Kilometers.

(iii) Calculate the vertical rise (amplitude of relief) of the proposed pipeline.

(iv) From the marginal information, identify the two districts covered by the map

(v) Calculate the area of Mavirivirini sub- location. Give your answer in square kilometers.

## NKUBU MAP

1. Using the map extract NKUBU (1: 50,000) sheet No. 122/1 answer the following questions

- a) i. What is the magnetic declination of the map (1mk)
- ii. What is the longitudinal extent of the area show on the map (1mk)
- b) i. Measure the distance in KM along the loose surface road from Nkubu town grid-reference 515973 to Ithimbani market grid reference 438904 (2mks)
- ii. Draw a topographic relief section (cross-section) from Kirigara school grid reference 514998 as point A point B at grid reference 584999. Use a vertical scale of 1cm rep 40m (2mks)
- iii. On your cross section mark and name
- A river (1mk)
  - Rurie swamp (1mk)
  - Loose Surface road (1mk)
  - A Quarry (1mk)
- iv. Calculate the vertical exaggeration (2mks)
- c) i. Identity two settlement patterns shown on the map (2mks)
- ii. What is the general direction of flow of river Thingithu (1mks)
- iii. What is the bearing of Mbwijeru coffee Factory grid reference 479969 from Nkubu school 516931 (2mks)
- iv. Identify two drainage patterns shown by rivers in the map (2mks)

- d) i. Giving evidence from the map state four economic activities of this area (2mks)
- ii. You are required by your geography teacher to carry out a field study on vegetation of the area shown on the map (2mks)
- a. State two suitable objective of the study (2mks)
- b. Describe two techniques you would use to collect the data (2mks)

**2. Study the map of Nkubu 1:50,000 (sheet 122/1) provided and answer the following questions.**

- (a) (i) Give the latitudinal and longitudinal position of the North East corner of the map extract (2 marks)
- (ii) Give **two** methods used to represent relief on the map. (2 marks)
- (iii) What is the relief feature found, at the top of Kirui Hill within Mt. Kenya forest. (1 mark)
- (iv) Apart from administration, give **three** other services that are provided at Nkubu Divisional Headquarters. (3 marks)
- (b) (i) What is the length in kilometers of the all-weather bound surface road from the bridge at Nkubu water works (509935) to the road junction near Gitimbi (509995)? (2 marks)
- (ii) State **three** problems that may be encountered during construction of roads in the area covered by the map. (3 marks)
- (c) Citing evidence from the map, give **three** reasons why cattle rearing is widespread in Nkubu area. (6 marks)
- (d) Describe the drainage of the area covered by the map. (6 marks)

**3. Study the map of Nkubu (1:50,000) sheet 122/1 provided and answer the following questions**

- (a) (i) Give the six-figure reference of the trigonometrical station at Gatimbi. (2mks)
- (ii) Give the latitudinal extend of the are covered by the map. (2mks)
- (iii) What is the length in kilometers of the all-weather bound surface road junction at Getuaga to the road junction at Gatimbi? (2mks)
- (iv) What is the approximate height of the peak of Kirui hill? (2mks)

(b) Explain three factors which have influenced the distribution of settlements in the area covered by the map. **(6mks)**

(c) Draw a rectangle 15cm by 10cm to represent the area covered by the map. **(1mk)**

On the rectangle, mark and name;

(i) Rurie swamp **(1mk)**

(ii) Forest **(1mk)**

(iii) River Muugi **(1mk)**

(d) (i) Citing evidence from the map, give two reasons why the area covered by the map is suitable for coffee growing. **(4mks)**

(ii) Apart from agriculture, name three other economic activities carried out in the area covered by the map. **(3mks)**

**4. Study the map in Nkubu (1:50,000) and answer the following questions.**

(a) (i) Give the approximate height of Lake Rumuiku (3987). **(1 mk)**

(ii) Calculate the average gradient of the ALL weather road loose surface from Kitunguu grid square 6088 to the junction in grid reference 514925. **(2 mks)**

(i) Identify two districts adjoining Nkubu district. **(2 mks)**

(ii) Calculate the area of the forest to the south of the Northing 84. **(2 mks)**

(b) Explain how relief has influenced:

(i) Drainage **(3 mks)**

(ii) Transport **(2 mks)**

(c) Describe the distribution of settlement. **(5 mks)**

(i) Explain three factors that favour trading in the area covered by the map. **(6 mks)**

(ii) State two problems a student would encounter while conducting fieldwork in this area. **(2 mks)**

**5. Study the map of Nkubu (Sheet 122/1) provided and answer the following questions.**

(a) (i) Give the adjoining sheet number and name of the map to the North East Nkubu map. **(1 mark)**

(ii) Give the longitudinal extent of the area covered by the map. **(1 mark)**

(iii) What is the general direction of Kianjogu School farm from Yukuru Church. **(2 marks)**

(b) (i) Using the marginal information given, give the magnetic variation of the area as at this year 2012. **(2 marks)**

(ii) Measure the distance in kilometers of the all weather road from Nkubu towards Meru. **(3 marks)**



- (iii) What is the bearing of Yukuru prison from lower Chure Church. **(2 marks)**
- (c) (i) Citing evidence from the map state **four** economic activities taking place in area. **(4 marks)**
- (ii) Describe the drainage of the area covered by the map. **(4 marks)**
- (iii) Draw a square measuring 12cm by 12cm and represent the area on the map between Eastings 39 and 42 and Northings 85 and 88 and show the road, lakes, rivers, schools and churches and forest. **(7 marks)**

**6. Study the map of Nkubu 1:50,000 (sheet 122/1) provided and answer the following questions.**

- (a) (i) Give the latitudinal extent of the area covered by the map. **(1 mark)**  
 (ii) What is the approximate height of Rurie swamp? **(1 mark)**  
 (iii) Calculate the area of the land covered by the forest to the south of Northing 85. (Give your answer in square kilometres). **(2 marks)**  
 (iv) Measure the distance of the Dry Weather Road E778 from the road junction at Kanyakine to Easting 60. (Give your answer in kilometres). **(1 mark)**
- (b) (i) Using a vertical scale of 1cm represents 100 metres, draw a cross-section from grid reference 380910 to grid reference 450910. **(3 marks)**  
 (ii) On the cross-section, mark and name the following;  
 • A depression  
 • Loose surface road  
 • River **(3 marks)**  
 (iii) Calculate the vertical exaggeration (VE) of the section. **(2 marks)**
- (c) Describe the relief of the area covered by the map. **(4 marks)**
- (d) Citing evidence from the map explain **two**;  
 (i) physical factors that may have influenced the location of Nkubu town. **(4 marks)**  
 (ii) factors that favour trading in the area covered by the map. **(4 marks)**

## BUSIA MAP

1. Study the map of Busia 1:50000 (sheet 101/1) and answer the following questions.

- i) What is the position of **Nangingingi hill** by latitude . (1mark)
- ii) What was the magnetic variation of the area when the map was published. (1mark)
- iii) Identify **two** natural relief features in grid square **2837**. (2marks)
- iv) Name **two** types of natural vegetation to the North of Northing 45. (2marks)

b i) Calculate the bearing of the road junction near **Matayo** from the road junction near **Bumala** (3marks)

ii) Giving evidence from the map, state **three** economic activities in the area covered by the map extract (3marks)

c) i) State **three** methods that have been used to show relief on the map extract. (3marks)

ii) What is the vertical interval (V.I) of the map extract) (1mark)

d) Students from **Mundika Mission school** carried out a field study on Northing 44.

i) Identify **two** types of settlement. (2marks)

ii) State **three** problems they might have **encountered**. (3marks)

d i) Draw a cross section from grid reference 250370 to grid reference 310370, use a scale 1cm rep 50 metres . (1mark)

ii) On the cross section drawn mark and name the following

- Loose surface road (1mark)
- Hill (1mark)

- River (1mark)

**2. Study the map of Busia 1:50,000 (sheet 101/1) provided and answer the following questions.**

(a) (i) Convert the ratio scale of the map extract into a statement. (2 marks)

(ii) What is the general direction of flow of river sio? (1 mark)

(iii) Identify the two dominant types of natural vegetation shown in the area covered by the map (2 marks)

(b) Draw a square 10cm by 10cm to represent the area to the west of easting 30 and north of Northing 40. On the square, mark and label:

(i) An international boundary;

(ii) An air photo principal point;

(iii) River sio;

(iv) The area above 1200 metres above sea level

(c) Describe the relief of the area covered by the map

(d) (i) Explain how the following factors have influenced the distribution of settlements in the area covered by the map:

- Drainage (2 marks)

- Transport (2 marks)

(ii) Citing evidence from the map, state three functions of Funyula town (6 marks)

**3. Study the map of Busia 1:50,000 (sheet 101/1) provided and answer the following questions.**

(a) (i) What is the vertical interval of the map? (1 mark)

(ii) Give the height of Burende Hill on grid square 3135. (2 marks)

(iii) Identify **two** man made features on grid square 2431. (2 marks)

(iv) Measure the distance of the All Weather loose surface road from the junction at Odiado southwards to Ukwala. (Give your answer in kilometers). (2 marks)

(b) (i) Draw a cross section from grid reference 260330 to 340330. Use a vertical scale of 1cm to represent 40m. On it mark and name; (8 marks)

- Odiodo Hill.
- All weather road loose surface
- A river

(ii) Calculate the vertical exaggeration of the section. (2 marks)

(ii) Are the two points intervisible? Give a reason. (2 marks)

(c) Citing evidence from the map, explain **three** factors that have influenced the distribution of settlement in the area covered by the map. (6 marks)

**4. Study the map of Busia (1:50,000) provided and answer the questions that follow.**

(a) (i) Identify **two** methods of representing relief used in the area covered by the map. (2mks)

(ii) What is the four-figure grid reference of Sega mission? (2mks)

(iii) Identify **three** economic activities carried out in the area covered by the map. (3mks)

(iv) Calculate the area to the west of the international boundary. Give your answer in km<sup>2</sup>. (2mks)

(v) Calculate the bearing of the school at Budokomi from the trigonometrical station in grid square 3546. (2mks)

(b) Describe the distribution of settlement in the area covered by the map. (6mks)

(c) (i) Using a scale of 1cm to represent 100m, draw a cross section from grid reference 220426 to grid reference 294400. (3mks)

(ii) On the cross section, mark and name:

- An international boundary.
- River Sio.
- A bridge. (3mks)

(iii) Calculate the vertical exaggeration of the cross section. (2mks)

## KARATINA MAP

1. Study the map of Karatina 1:50,000 (sheet 121/3) provided and answer the following questions:

- (a) (i) Give the magnetic variation of the area covered by the map. (1mk)
- (ii) Give two methods used to represent relief on the map provided. (2mks)
- (iii) Calculate the area of Mount Kenya Forest in Kirinyaga District. (2mks)
- (b) Give three social services provided at Tumu Tumu town. (3mks)
- (c) Draw a cross-section along Northings 50 from Eastings 92 to 98. (3mks)
- (i) On the cross-section mark the following features: (3mks)
- All Weather Road
  - River Karuru
  - District boundary
- (ii) Calculate the vertical exaggeration (V.E) (2mks)
- (iii) Determine the inter-visibility of the cross-section. (1mk)
- (d) Describe the drainage of the area covered by the map. (6mks)
- (e) Give the highest and lowest point of the area covered by the map. (2mks)

2. Study the map of Karatina 1:50,000 (sheet 121/3) provided and answer the following questions.

- (a) (i) What is the four grid reference of the technical institute at Mathira? (2 marks)

(ii) What is the bearing of Mount Kenya campus at grid reference 932568 from the cattle dip at grid reference 990529? **(2 marks)**

(iii) Measure the distance of the railway line from the level crossing at grid square 8652 to the southern edge of the map. Give your answer in kilometers **(2 marks)**

(b) Draw a rectangle measuring 15cm by 10cm to represent the area enclosed by Eastings 90 and 100 and Northing 50 and 60 **(1 mark)**

On the rectangle mark and name the following

(i) Kirinyanga district

(ii) All weather road bound surface

(iii) Forest

(iv) Coffee factory

**(4 marks)**

(c) Describe the distribution of the natural vegetation in the area covered by the map **(6 marks)**

(d) Identify two social functions of Karatina town

**(2 marks)**

(e) Citing evidence from the map, explain **three** factors that favors trading in the area covered by the map **(6 marks)**

**3. Study the map of Karatina 1:50,000 (sheet 121/3) provided and answer the following questions**

(a)(i) Identify **two** ways in which relief has been represented on the map of Karatina **(2mks)**

(ii) What is the bearing of Mount Kenya campus at grid reference 932568 from the cattle dip at grid reference 990529? **(2mks)**

(b) (i) Describe the drainage of the area covered by the map **(6mks)**

(ii) Explain the nature of relief for Karatina area covered by the map **(4mks)**

(c) Students from Tumu Tumu school on grid square 8745 carried out a field study on vegetation found in Mt. Kenya.

(i) Give any **three** preparations students were engaged in before the actual study. **(3mks)**

(ii) State **three** reasons why students preferred sampling as the best method for studying the forests on Mt. Kenya **(3mks)**

**4. Study the map of Karatina (1:50,000) sheet 121/3 provided and answer the following questions.**

(a) (i) Give the six figure grid reference for Rititi school. **(1mk)**

(ii) Convert the scale used in the map to a statement scale. **(2mks)**

(iii) Give the magnetic variation on the map. **(1mk)**

(b) (i) Using a vertical scale of 1cm represents 30m. Draw a cross section between grid references 860490 to 920490. On it name and mark the following:- **(6mks)**

- River
- Road
- Settlement

(ii) Name **two** districts on the area represented on the map. **(2mks)**

(iii) Citing evidence, give **three** economic activities carried out at S.E. of Karatina. **(3mks)**

(c) Describe the relief of the area covered by the map. **(4mks)**

(d) Students of Gathambiro School (grid square 8857) carried out field study on the area covered by the map.

(i) Name **three** physical features they may have identified. **(3mks)**

(ii) State **three** follow up activities they might have done after the fieldwork. **(3mks)**

## HOMABAY MAP

1. Study the map of Homabay (1:50,000) sheet 129/2 provided. Answer the following questions.

- (a) (i) Calculate the area of the part of Olambwe Valley National Reserve shown on the map. (Give your answer in square kilometers). **(2marks)**
- (ii) What is the length of the Homa Bay municipality boundary? **(2marks)**
- (iii) Give six figure grid reference for the secondary trigonometric section on the Ruri Hills. **(2marks)**
- (iv) Draw a rectangle that measures 10cm by 15cm to represent the area enclosed by Eastings 51 and 59 and Northings 33 and 45. On it mark and name the following features.
- Lake Victoria
  - Ranyambala forests
  - Secondary trigonometric station
  - River Ogongo **(5marks)**
- (b) Using evidence from the map, state three functions of Homabay town **(3marks)**
- (c) (i) Name three types of vegetation shown on the map. **(3marks)**
- (ii) Identify three settlement patterns found in the area covered by the map. **(3marks)**
- (d) Describe the relief of the area covered by the map. **(5marks)**

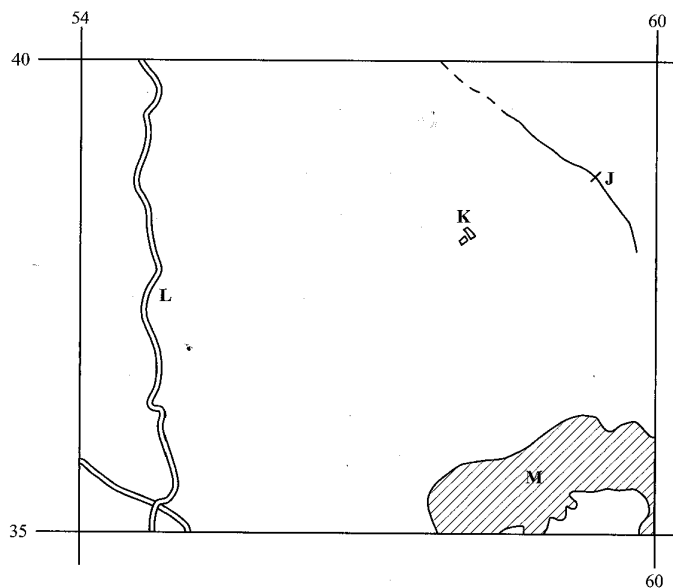
2. Study the map of Homa Bay (1:50,000) sheet 129/2 provided and answer the following questions.

- (a) A pipeline is to be laid from Lake Victoria along the line marked X-Y.



- 100 (i) What is the length of the piping to be used? (Give your answer to the nearest metres). **(2 marks)**
- (ii) Calculate the bearing of point Y from point X **(2 marks)**
- the (iii) Calculate the area of the part of Lake Victoria shown on the map excluding the marshy sections. (Give your answer in square kilometers). **(2 marks)**

(b) The rectangle below represents the area in the map extract bounded by Eastings 54 and 60 and Northings 35 and 40. Identify and name the features marked J, K, L and M. **(4 marks)**



- (c) (i) Explain **three** factors which have influenced the distribution of settlements in the area covered by the map. **(6 marks)**
- (ii) Citing evidence from the map, give **two** agricultural activities carried out in the area covered by the map. **(4 marks)**
- (d) Describe the drainage of the area covered by the map. **(5 marks)**

3. **Study the map of Homa Bay(1:50,000) Sheet 129/2 provided and answer the following questions**

- (a) i) Convert the ratio scale of the map extract into statement scale **(1mk)**
- ii) Give the **six** figure grid reference for Asina dam **(1mk)**
- (b) i) Draw a cross section along northing 40 from GR 490400 to 550400 use a vertical

scale of 1cm rep 100m (3mks)

ii) On the cross section, mark and name: (3mks)

- a river
- a road(E117)
- Location boundary

iii) Calculate the vertical exaggeration of the section you have drawn. (2mks)

(c) i) Calculate the area of Homa Bay township. (2mks)

ii) Measure the length of the loose surface road C19 from the junction at Got Kokech to the Homa Bay township boundary. (2mks)

(d) i) Name **three** types of natural vegetation shown on the map. (3mks)

ii) Name **two** sources of water in the area of the map extract. (2mks)

iii) Using evidence from the map, suggest **three** functions of Homa Bay town. (3mks)

(e) Citing evidence from the map, mention **three** economic activities carried out in the area of the map extract. (3mks)

**4. Study the map of Homa Bay (1:50000) sheet 129/2 provided and answer the following questions.**

(a) (i) What type of map is Homa Bay? (1mk)

(ii) Give the six grid references of Nyalkinyi Dam and for the air photo principal point to the east of Kalanya.

(iii) State the methods of showing relief which are used on this map extract. (2mks)

(b) (i) Describe how physical factors have influenced transport lines in the area covered by the map extract. (5mks)

(ii) Citing evidences from the map state any **three** landform features shown on the map extract. (6mks)

(iii) Suggest any **two** occupations of the Homa bay residents with evidence from the extract. **(4mks)**

(c) A group of students carried out a field study; of the forest shown in the area to the West of Eastings 47;

(i) Name the physical features they identified. **(2mks)**

(ii) State the problems they might have encountered when carrying out the study. **(3mks)**

### MIGWANI MAP

1. Study the map of *Migwani 1:50,000 (sheet 151/1)* provided and answer the following questions.

(a) (i) Convert the ratio scale of the map into a statement scale. **(2marks)**

(ii) What is the name and the sheet number of the map to the south of Migwani. **(2marks)**

(iii) Give the longitudinal extent of the map. **(2marks)**

(iv) Calculate the bearing of the trigonometric station at grid reference 9264 from Usiani School. **(2marks)**

(b) (i) Using a vertical scale of 1cm to represent 100metres, draw a cross section along the line J-K. **(4marks)**

(ii) On it mark and label the following: **(4marks)**

• Footpath

- Road
- Water pipeline
- Steep slope

(c) Describe the relief of the area covered by the map. **(5marks)**

(d) Citing evidence from the map, give **two** economic activities carried out in the area covered by the map. **(4marks)**

**2. Study the map of Migwani 1:50,000 (Sheet 151/1) provided and answer the following questions.**

a) (i) Give the longitudinal extent of the area covered by the map. **(2marks)**

(ii) What is the magnetic variation of the map? **(1 mark)**

(iii) Give the six figure grid reference for the junction of the roads D503 and D507. **(2marks)**

b) (i) Using a vertical scale of 1cm to represent 100 metres, draw a cross section along the line marked J-K. **(4marks)**

ii) On it mark and label the following:

• Footpath; **(1mark)**

• Road; **(1mark)**

• Water pipeline; **(1mark)**

• Steep slope. **(1mark)**

iii) Calculate the vertical exaggeration of the cross section **(2marks)**

c) Citing evidence from the map, give **three** economic activities carried out in the area covered by the map. **(6marks)**

d) Explain how relief has influenced the distribution of settlement in the area covered by the map **(4marks)**

**3. Study the map of Migwani 1: 50,000 (Sheet 151 / 1) provided and answer the following questions.**

a) i) Give the latitudinal extent of the area covered by the map. **(2 marks)**

ii) What is the bearing of the borehole at grid reference 073698 from the settlement at grid reference 095 731? **(2 marks)**

iii) Measure the distance of the dry weather Road marked D 502 from the drift at grid square 9879 to the North end. Give your answer in kilometers. **(2 marks)**

iv) Calculate the area to the West of the All weather Road loose surface C94. Give your answer in square kilometres. **(2 marks)**

b) i) Using a vertical scale of 1cm to represent 100 metres, draw a cross-section from grid reference 040680 to grid reference 120 680 **(4 marks)**

ii) On it mark and label the following

- River Ikoo. **(1 mark)**

- Road **(1 mark)**

- Ridge **(1 mark)**

c) i) Identify **two** types of vegetation found in the area covered by the map. **(2 marks)**

ii) Citing evidence from the map, state **three** social functions of GWANI TOWN**(3 marks)**

d) Describe the drainage of the area covered by the map. **(5 marks)**

**4. Study the map of Migwani 1:50,000 (sheet 151/1) provided and answer the following questions.**

(a) (i) What is the altitude of the lowest contour shown on the map?(**1 mark**)

(ii) Give the six-figure grid reference of Mboni dam. **(2 marks)**

(iii) What is the length in Kilometres of the All Weather Road Bound Surface C94 from the junction with the Dry Weather Road D502 to Northing 84? **(2 marks)**

(b) Draw a rectangle measuring 10 cm by 8 cm to represent the area enclosed by Eastings 90 and 00 and Northings 62 and 70. **(1 mark)**

On the rectangle, mark and name the following features:

(i) Musengo school

(ii) Road E742

(iii) Kitui Hills **(3 marks)**

(c) (i) Citing evidence from the map, identify **four** social services offered in

Mutitu (Ndooa) township. (4 marks)

(ii) Describe the relief of the area covered by the map. (6 marks)

(d) Describe the characteristics of the long profile of river Ikoo. (6 marks)

## ITHANGA

1. Study the map of Ithanga(1:50,000 sheet 135/4 ) provided and answer the following questions.

a) i) Give a six – figured grid reference for the trigonometrical station to the south – east of the area covered by the map (1mk)

ii) What is the bearing of the school at kamwiendei village from the church at Riakanau?

iii) Measure the length of the dry weather road (E 625), from the junction at karaba shops to where it ends at Riakanau village. Give your answer in kilometers (2mks)

iv) Calculate the area of Tebere B in the northern part of the map. Give your answer in square kilometers (2mks)

b) Student from one of the schools in the area covered by the map carried out a field study on the physical features and economical activities found in the area.

i) Name two types of natural vegetation they are likely to have identified (2mks)

ii) Citing evidence from the map, name three economic activities the students are likely to have identified during their study (3mks)

iii) Citing evidence from map, name two methods the students are likely to have used to cross River Tana. (2mks)

c) Describe the drainage of the area covered by the map. (4mks)

d) Describe the distribution of settlements in the area covered by the map (3mks)

e) Draw a rectangle 15cm by 10cm to represent the area west of Easting 20 and south of northing 00. On the rectangle, mark and name:

i) The provincial boundary

ii) Ithanga hills

iii) The sisal plantation to the south west of the area (4mks)

## KERICHO

1. Study the map provided Kericho 1:50,000 (sheet 117/4) and answer the following questions.

a)(i) What feature is found at grid reference 691700? (2mks)

(ii) Name two man-made features found in Grid square 6269. (2mks)

(iii) Measure the length of the dry weather road E222 from the junction at Kipchimchim (grid reference 530640) to the junction with all weather road in the grid square 5863, Give your answer in kilometers (2mks)

b) Using a scale of 1cm to represent 50m, draw a cross-section from grid reference 570670 to grid reference 620670 and name the following:

(i) A river

(ii) A motorable track

(ii) Houses (6mks)

c) Describe the drainage of the area to the northwest of the Kericho-Lumbwa all weather road. Cite examples of the drainage patterns identified. (6mks)

d) Apart from the forests, name two other types of vegetation found in the area covered by the map. (2mks)

e) Students of a school in Kericho used the map of Kericho to prepare for a field study on tea growing in the area.

(i) Citing evidence from the map, state three conditions that favour tea growing in the area. (3mks)

(ii) State three methods the students may have used to collect information during their study. (3mks)

2. a) Study the map of Kericho 1:50,000 (sheet 117/4) provided and answer the following questions.

i) Give the longitudinal extent of the area covered by the map. (1mk)

- ii) Convert the scale of the map into a statement scale. **(2mks)**
- iii) What is the approximate height of the hill in the grid square 6770? **(2mks)**
- iv) Calculate the area of Kericho Municipality. Give your answer in square kilometers. **(2mks)**
- b) i) Give three types of natural vegetation found to the west of Easting 53 **(3mks)**
- ii) What is the bearing of the trigonometrical station at grid reference 554668 from the factory at grid reference 610626? **(2mks)**
- iii) Identify three forms of land transport found to the north of Northing 68 and west of Easting 53? **(3mks)**
- c) Describe the distribution of settlements in the area covered by the map. **(4mks)**
- d) Citing evidence from the map, explain three factors that favour the establishment of tea estates in the area covered by the map. **(6mks)**



## YIMBO MAP

### 1. Study the map provided. Yimbo 1:50,000 (sheet 115/1) and answer the following questions

(a) (i) What is the bearing of the air photo principal point in the grid square 3274 from the trigonometrical station in the grid square 2778?

(ii) Give the latitudinal extent of the area covered by the map

(b) Draw square 15 cm x 15 cm to represent the area bounded by the Easting 12 and 20 and the Northings 90 and 99. In the square you have drawn, mark and label

(i) Busia District

(ii) Lake Sare

(iii) All weather loose surface road

(c) Name two features shown on the map that indicate that the area receives low rainfall.

(d) Citing evidence from the map, state three economical activities carried out in the area covered by the map.

(e) Describe the relief of the area covered by the map

(f) Suppose you are a student from Pala school (grid square 2793) and are planning to carry out a field study on the velocity of the part of river Yala shown on the map.

(i) What preparations are likely to make for the study?

(ii) State three problems you are likely to experience during the field study

(iii) State two follow – up activities you are likely to carry out after the field study.

### 2. Study the map of Yimbo 1:50,000 (sheet 115/1) provided below and answer the questions that follow.

- (a) (i) Name two countries covered by Yimbo (2mks)  
 (ii) What is the bearing of Trigonometrical station in grid square 3285 from trigonometrical station in 3980. (2 marks)  
 (iii) convert the ratio scale 1:50000 used in the map to linear scale. (2mks)
- (b) (i) Give latitudinal extend of the area covered by the map. (2mks)  
 (ii) What is the magnetic variation of the map as at now (year 2020) (2 marks)  
 (iii) Identify three human made features found in the grid square 3691 (3mks)
- c) Describe the drainage of the area covered by the map. (6mks)  
 d) Giving evidence from the map. Explain three reasons why dairy keeping is not practiced in the area covered by the map. (6mks)

**3. Study the map of YIMBO 1:50,000(sheet 115/1) provided answer the following questions.**

- a.) i.) Convert the representative fraction scale given on the map to a statement scale (2 marks)  
 ii.) Identify three Districts that are covered by the Yimbo map (3 marks)
- b.) i.) Give the exact height of Usengi hill (1 mark)  
 ii.) with evidence from the map, give any two social services that are offered in the area covered by the map (2 marks)
- c.) i.) Using a scale of 1 cm represents 20 m, draw a cross section from grid reference 320790 to grid reference 390790 (4 marks)  
 ii.) On the cross section, mark and name the following:-  
 • A lake (1 mark)  
 • Main track (motorable) (1 mark)  
 • A river (1 mark)
- d.) i.) Describe the relief of the area covered by the map (4 marks)  
 ii.) Explain three factors that have influenced settlement in the area covered by the map (6 marks)

**4. Study the map of YIMBO 1:50,000(sheet 115/1) provided answer the following questions.**

6. a) i) What type of map is Yimbo map extract. (1mk)  
ii) Give two scales that have been used in Yimbo map. (2mks)  
iii) Give latitudinal extend of the map. (2mks)
- b. i) Measure the length of the loose surface road C506 from the junction at GR square 3082 to port south by. Give your measurements in kilometers. (2mks)
- ii) Draw a rectangle measuring 8cm by 4cm to represent the area covered by the map between Easting 25 and 33 and northing 80 and 84. On the rectangle mark and name the following.
- Serawengo hill
  - Loose surface road
  - Nyagoma mission school.
- c. i) Give the direction of the other trigonometric station at G.R square 3285 from Maranda school. (4mks)
- ii) Identify two vegetation types shown on the area represented by the map. (2mks)
- d. i) State four ways that relief has been represented on the map. (4mks)  
ii) Describe the relief of the area covered by the map. (4mks)

## MATHIOYA MAP

### 1. Study the map of Mathioya 1: 50,000 provided and answer the following questions

- (a) (i) What is the bearing of the cattle dip at grid reference 716386 from the coffee factory at grid reference 740377?
- (ii) Give the approximate height of Kigoini dam
- (iii) Measure the length of the district boundary in the Aberdare forest from Western margin of the map to the eastern edge of the forest (Give your answer in kilometers)
- (b) Describe the drainage of the area covered by the map
- (c) Draw a sketch section along northing 42 from grid reference 720420 to grid reference 760420 On the section mark and name
- (d) Describe the distribution of settlements in the area covered by the map
- (e) (i) Citing evidence from the map, give two reasons why the area covered by the map is suitable for coffee growing
- (ii) Apart from agriculture, name two other economic activities carried out in the area covered by the map

## KIJABE MAP

### 1. Study the map of Kijabe 1: 50,000 provided and answer the following questions:

(a) (i) What is the appropriate height of the top of Kijabe hill?

(ii) Measure the length of Nairobi – Naivasha railway line from landhies (grid reference 257978) to the level crossing near Kijabe station (grid reference 308984). Give your answer in kilometers.

(iii) What relief feature on the map may have created problems in the construction of the railway line?

(b) Describe the drainage of the area covered by the map

(c) Explain how relief has influenced the distribution of settlement in the area covered by the map.

(d) Citing evidence from the map, state four economic activities carried out in the area covered by the map.

(e) Suppose you were a student in the school at Kinari ( Kinale) and you plan to carry out a field study of Wakagwe forest,

(i) Design a working programme (schedule) you would use during the day of the study

(ii) Give three reasons why it would be necessary to sample part of the forest for the study

(iii) State two ways in which your findings would be useful to the local community.

## KISUMU EAST MAP

### 1. Study the map of Kisumu East (1:50000) provided and answer the following questions.

i) What is the bearing of the trigonometrical station at Grid reference 081980 from the rock out crop at grid reference 071992.

ii) Measure the length of the all – weather road (bound surface) b2 /1 from the junction at grid reference 947911 to the edge of the Map, grid reference 947667.(Give your answer in kilometers)

iii) On a rectangle, mark and name:

- Mgange hills
- A rock out crop
- All weather road, bound surface
- River Ruhia
- Ronge forest

b) i) Describe the relief of the area covered by the map.

ii) Explain how relief has experienced settlement in the area covered by the map.

c) Citing evidence from the map, give three economic activities carried out in the area covered by the map other than crop growing.

d) Students from the school at Mosongo (Grid square 0681) carried out a field study of the course of the river Ombeyi.

i) State three findings they are likely to have come up with.

ii) Give three advantages of studying rivers through fieldwork.

## MERU MAP

1. Study the map of Meru (1: 50,000, sheet 108/3) provided and answer the following questions

- a) i) What is the height of Njorivola hill at grid square 4117
- ii) Give two methods used in representing religion the map contract
- iii) Measure the bearing of the peak of Kanjai hill form the peak of Kieru hill to the north east ofthe map extract.
- b) Citing evidence from the map, explain:
  - (i) Two factors trading in the area covered by the map
- c) The rectangle (in the question paper) represents the area in the map extract bounded by Easting 35 and 40 and Northing and Northing 02 and 10. Use it to answer the questions that follow.
  - (i) Measure the length of the road they followed from the junction at grid reference 442128 to the junction at Gitoro, grid reference 478069. Give your answer in kilometers
  - (ii) Apart from the forest, name two other types of natural vegetation they observed along the route
  - (iii) State two methods they may have used to collect data while at the sawmill
  - iv) State three follow- up activities they may have been involved in after the field study.

## KIPKABUS MAP

1. Study the map of Kipkabus (1:50,000, sheet 104/4 provided and answer the following questions.

a) (i) give the latitude and longitude of the South west corner of the map extract. (2mks)

(ii) What is the area of Tingwa Hill Forest? (2mks)

b) (i) name the planted vegetation in the area covered by the map (1mk)

(ii) Explain how relief and human activities have influenced the distribution of natural vegetation in the area covered by the map (4mks)

c) i) Using a vertical scale of 1 cm to represent 100 meters draw a cross section Along the line marked X-Y (5mks)

ii) On the cross section mark and label the following:-

- A steep slope
- A hill
- A col
- A river valley (4mks)

iii) Calculate the vertical exaggeration of the cross section (2mks)

d) Student of Chepkeret school carried out a field study of Kipkabus town.

i) Name **two** types of roads they used to travel to Kipkabus (2mks)

ii) State **three** functions of Kipkabus that they identified (3mks)



## SILALONI MAP

### 1. Study the map of SILALONI (1:50,000) provided and answer the following questions

- (a) (i) Convert the ratio scale of the map extract into a statement scale **(1mk)**
- (ii) Give the six – figure grid reference of the point where the power line crosses the Samburu – Silaloni dry weather road **(1mk)**
- (iii) Give three types of natural vegetation shown in the area covered by the map **(2mks)**
- (b) (i) Identify two sources of water in the area covered by the map **(2mks)**
- (ii) Using evidence from the map, suggest four functions of Tsangatsini township. **(4mks)**
- (c) Using a vertical scale of 1 cm to represent 20m:
- (i) draw a cross section from grid reference 400915 to 500915 **(3mks)**
- (ii) On the cross section, mark and name the following:
- A river
  - A road
  - A quarry
- (iii) Calculate the vertical exaggeration of the section you have drawn **(2mks)**
- (d) Students at Silaloni school (grid square 3199) carried out a field study on the soils around the school
- (i) Give four reasons why a reconnaissance was necessary for the field study **(4mks)**
- (ii) Name two types of soils they collected **(2mk)**

## NYAHURURU MAP

1. Study the map of Nyahururu, 1: 50,000 (sheet 105/4) provided and answer the following questions

(a) (i) Give the six figure grid of the junction where the road to Ndaragwa (D 388) meets with the road to Nyeri & Nanyuki (B5) (2 mks)

(ii) Calculate the bearing of point X from point Y (2mks)

(iii) Name three physical features found along the line XY (3mks)

and (b) (i) Draw a square 12 cm by 12 cm to represent the area enclosed by the Easting 10 northing 10 to the North- eastern part of the map (1mk)

(ii) On the square, mark and label

• The main river (1 mk)

• All weather loose surface road (1 mk)

• A forest (1 mk)

(b) Citing evidence from the map, explain two (i) Physical factors that may have influenced the location of Nyahururu town (4 mks)

(ii) Factors that favour saw milling in the area covered by the map (4 mks)

## BELGUT MAP

### 1. Study the map of Belgut sheet 117/3 and the following questions.

- a i) Give the six figure grid reference for Teldet school in the North. (2mks)
- ii) What is the approximate area of Homa Bay district found on the map extract. (2mks)
- b) i) Give the direction and bearing of Mindililwet school from Chebirbei junction. (2mks)
- ii) Measure the distance of river Sondo from Northing 50 to the end in the West. (2mks)
- c. Draw a rectangle representing the area West of Easting 30 and North of Northing 50. (2mks)
- On it mark and name the following:
- i) River Sondo (1mk)
- ii) Sikowon hill (1mk)
- iii) All weather road bound surface. (1mk)
- iv) Papyrus swamp (1mk)
- d) i) Citing evidence from the area covered by the map, name any 2 social activities taking place in Kebenet. (2mks)
- ii) Give two uses of river Sondo in the area through which it flows. (2mks)
- iii) Explain 3 factors that have influenced the growing of Tea in area covered by the map (use evidence) (6mks)
- iv) Name two types of settlement found at grid 2457. (1mk)