CHRISTIAN SOCIOL SERVICE COUNCIL (CSSC) PRE-NATIONAL EXAMINATION

GEOGRAPHY I: MARKING GUIDE

1. (A) Change 6.55km into cm

 $1cm = \frac{1}{2} km$

 $\frac{1}{2}$ km x = 1 x 6.55 x 2= 13.1cm Measure 13.1cm from 920190

The name of object is reference 892130

(03 Marks)

(ii) Position of object using grid refence 892130

(03 marks)

(B) (i) Ground distance

$$distance = \frac{speed}{Time}$$

(01marks)

$$= \frac{30km}{4} \times \frac{16}{60}$$

 $\frac{30km/h}{16m}$

$$\frac{480}{60}$$

Ground distance = 8.1 km

(02 marks)

(ii) Representative fraction (RF) scale

Scale =
$$\frac{map \ distance}{ground \ distance}$$

$$\frac{10cm}{8.1 \ km \ x \ 100,000}$$
R. F =
$$\frac{1}{81000}$$
(O3 marks)

(iii) Scale =
$$\frac{10cm}{8.1 \text{ km}}$$

$$\frac{1cm}{0.81 \ km}$$

One centimeter on the map represents zero pointeight one Kilometer on the actual ground (03 marks)

(iv Linear scale

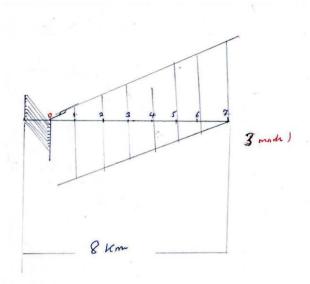
Base Line

If 1cm represents 0.81km

Then 1.23cm represents 1km

Therefore: 10cm represents 8.1km

Base line = 10cm (01 mark)



C. Type of climate = Equatorial climate

Reason = Presence of many water bodies (01mark)

= Green vegetation

(01mark)

D. i Fishing activities (01 mark)

ii. Business/trade (01 mark)

iii. Agriculture (01 mark)

iv. Irrigation(01 mark)

2. Calculate total

YEAR	PRODUCTION ("000") TONES	EXPORT ("000") TONES
2008	300	290
2009	315	300
2010	305	298
2011	355	313
2012	325	320
TOTAL	1600	1521

(II) To calculate radius square root total of each

R1 =
$$\sqrt{1600}$$
 = 40

R2 =
$$\sqrt{1521}$$
 = 39 (01mark)

Let 1cm = 10 unit

$$\frac{40}{10}$$
 = R, = 4

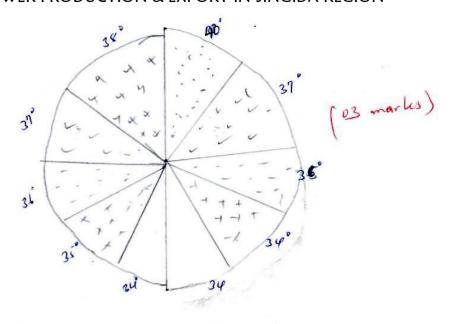
$$\frac{39}{10}$$
 = R₂ = 3.9 (01 marks)

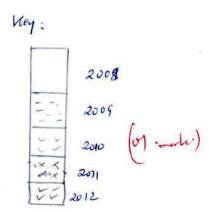
Change each unit into degree

1141.60 5461. 4111. 111.0 456.50			
YEAR	PRODUCTION	EXPO	
2008	$\frac{300}{160}$ X180 = 33.75°	$^{290}/_{152}$, X180 = 34.91°	
2009	$315/_{1600}$ X1800°= 35.43°	$300/_{1521}$ X1800 = 35.52°	
2010	$305/_{1600}$ X1800 = 34.31°	$^{298}/_{1521}$ X 180 = 35.26°	
2011	$\frac{355}{1600}$ X1800 = 39.93°	$313/_{1511}$ X1800 = 39.93°	
2012	$325/_{1600}$ X1800 = 36.56°	$320/_{11521}$ X180 = 37.86°	

(01 marks)

SUNFLOWER PRODUCTION & EXPORT IN SINGIDA REGION





- (B) Candidate has to differentiate given terms
 - i. Inferential statistics deals drawing conclusion from Sample WHILE descriptive statistics deals with summarized collected data from the field
 - ii. Primary data is original information from field WHILE secondary data is data already collected from other written documents
 - iii. Dependent variable is variable whose changes depends on other factors while independent variable is the one which changes independently
 - iv. Measure of central tendency is the set of values which live central within data set organized in accordance to magnitude eg. Mean, mode, median: While measure of dispersion is measurement taken in reference to the mean of data. Eg. Standard deviation (08 marks) @ 02 marks
- 3. (a) Student is asked to differentiate the following terms:
 - (i) Principal point: is the area I the ground where the camera is focused WHILE focal length: is the distance from the camera axis to the film.
 - (ii) Flying height: is the distance from the ground to the camera axis WHEREBY flight line: is the point of aircraft that takes picture in uniform distance from the ground.
 - (iii)Datum: is the mean sea level which indicates the elevated part of the ground WHILE mosaic: is the overlapping area which occur during the process of taking picture. This occurs when the same area is indicated by more than one picture.

 06 marks (02 marks @)

(b) Photo scale = 1:20000

Flying height of craft (H) = 3200m

Height of object (h) = 1400m

Focal length (f) =?

PS =
$$\frac{F}{H-h}$$
 (01 mark)
 $\frac{1}{20,000} = \frac{f}{(3200-1400)m}$

Change m into a

1m = 1000m

Change m into a

1m = 1000m

1800 = x

1800000 (01 mark)

 $\frac{20,000F}{20,000} \frac{1800000}{20000}$ f= 90mm

the focal length = 90mm (03 marks)

- (c) (i) Scenario discovered is Photo scale distortion (01 mark)
 - (ii) Causes of photo scale distort
 - Image displacement
 - Distortion of size of scale
 - Non uniformity coverage of ground (03marks)

4. Introduction

Any relevant meaning of air mass (02marks)

Four (4) General characteristics of air mass

- i. Air mass originate from homogenous surface like ocean, desert etc
- ii. Air mass are always on motion
- iii. It covers large area
- iv. Direction of air mass depend on barometric gradient
- v. Any other relevant point (02marks @ marks)

Four (4) principle types of air masses

- i. Polar maritime (Pm)
- ii. Polar continent (Pc)
- iii. Tropical maritime (Tm)
- iv. Tropical maritime (Tc)
- vi. Equatorial maritime (Em) (02marks @ marks)
 Conclusion

Any relevant conclusion (02marks)

5. Introduction

Candidate has to define soil colour (02 marks)

Main body

Four source of soil colour (02 marks each)

- i. Mineralogical composition
- ii. Organic matter content
- iii. Moisture content in the soil
- iv. Temperature of an area

Importance of soil colour (02 marks each)

- i. It influences microbial activities
- ii. It is crucial I understanding the climate of an area
- iii. It determines the fertility of soil
- iv. It regulates heat/ determines the temperature holding capacity of soil
- v. Helps in selection of crops to be grown
- vi. Used in classification of soil

Conclusion

Any relevant conclusion (02 marks)

6. Introduction

Artesian basin is basin formed when permeable rock lay between two layer of impermeable rocks such that they form shallow syncline

(03 marks)

Main body

Condition for formation of artesian basin

- i. Presence of permeable rock laying between two impermeable rock
- ii. Permeable rock should be exposed in area of sufficient precipitation
- iii. Basin must be deep toward region
- iv. There must be partial or total blockage of exist
- v. Sufficient water to provide an adequate supply of underground water (03 marks in each point)

Conclusion

Any relevant conclusion (02 marks)

7. Introduction

Plate tectonics is large movement of Earth lithosphere (03 marks)

Main body

Evidence of plate tectonic theory

- I. Formation of new oceanic crust
- II. Presence of fold mountains
- III. Occurrence of volcanism along plate margins
- IV. Widening of atlantic ocean basin
- V. Narrowing of sea floor like miditeranian
- VI. The presence of transform fault (2.5 marks per each poit)

Conclusion

Any relevant conclusion (02 marks)