

# CATHOLIC DIOCESE OF MOSHI

## URU SECODARY SCHOOL

### ENGLISH LANGUAGE FORM ONE

#### Exercise

#### Instructions:

Answer all questions

1. Add ‘-ing’ to the following verbs:

- i. Seek \_\_\_\_\_
- ii. Put \_\_\_\_\_
- iii. Lead \_\_\_\_\_
- iv. Obey \_\_\_\_\_
- v. Refer \_\_\_\_\_
- vi. Knit \_\_\_\_\_
- vii. Hit \_\_\_\_\_
- viii. Swim \_\_\_\_\_
- ix. Control \_\_\_\_\_
- x. Paste \_\_\_\_\_

2. Define the following:

a. Dictionary

b. What are the functions of dictionary? (Give seven functions with examples)

- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- iii. \_\_\_\_\_
- iv. \_\_\_\_\_
- v. \_\_\_\_\_
- vi. \_\_\_\_\_
- vii. \_\_\_\_\_

3. Write a correct English sentence using each of the following words:

- i. Who
- ii. Which
- iii. Where
- iv. Whom
- v. Whose

4. Fill in the gaps in the boxes with the correct verb form and for each verb you have filled in write a correct sentence.

Everyday I .....	Yesterday I .....	Just now I have .....
i. Arise	_____	_____
ii. Awake	_____	_____
iii. Am	_____	_____
iv. Bend	_____	_____

# GEOGRAPHY

## A) THE GREAT CIRCLE

1. (a) Define the term Great circle
- (b) Name two examples of the Great circle
- (c) Referring the given points , mention the characteristics of the Great circle
  - (i) Hemisphere (ii) radius of the earth (iii) number of the great circle
  - (iv) distance and (v) route way

## B) TIME

2. Give the meaning of the terms below:
  - a. Time b. Time zone c. Standard time d. Greenwich mean time
  - e. Local mean time f. Longitude  $0^\circ$

## C) THE INTERNATIONAL DATE LINE (IDL)

- 3.(A) Define the International date line
- (B) Draw the neat sketch diagram of the International date line
- (C) Explain why the International date line is zigzag? Two reasons

## SIGNIFICANTS OF THE INTERNATIONAL DATE LINE

- ✓ 1. A day is gained when one travels Eastwards across the line.
- ✓ 2. A day is lost when one travels Westwards across the line.
- ✓ 3. People have to adjust their clock 24 hours forward or backward when crossing the line

## D. CALCULATION OF TIME

From the fact that,

The earth takes 24hrs to rotate on its own axis , comprising of  $360^\circ$  .

Using mathematical expression, the statement can be written as :-

$$24\text{hrs} = 360^\circ$$

Then ,

$$\begin{array}{rcl} 24\text{hrs} & = & 360^\circ \\ 1\text{hr} & = & ? \end{array}$$

$$1\text{hr} = \frac{360}{24} = 15^\circ \quad \text{Therefore } 1\text{hr} = 15^\circ$$

Again

$$1\text{hr} = 15^\circ \quad \text{but } 1\text{hr} = 60\text{minutes}$$

$$60\text{minutes} = 15^\circ$$

? = 1<sup>0</sup> By crossing multiplication:-

$$\begin{array}{rcl} 60\text{mn} & = & 15^0 \\ ? & = & 1^0 \\ 1^0 & = & \frac{60}{15} = 4\text{mn} \end{array} \quad \text{Therefore } 1^0 = 4\text{minutes}$$

So, in time calculation TWO relations will be useful

1. 1hr = 15<sup>0</sup>
2. 4mn = 1<sup>0</sup>

### EXAMPLES

1. What local time will be in Kampala 15<sup>0</sup>E, when the local time in Moshi 45<sup>0</sup>E in 11.00am?

#### Procedures

- i) Identify given longitudes ( Kampala 15<sup>0</sup>E and Moshi 45<sup>0</sup>E )
- ii) Find difference in longitude

$$( 45^0\text{E} - 15^0\text{E} ) = 30^0\text{E}$$

- iii) Change difference in longitude into time

From :-

$$\begin{array}{rcl} 1\text{hr} & = & 15^0 \\ ? & = & 30^0 \end{array} \quad \text{Through cross multiplication:-}$$

$$\begin{array}{rcl} 1\text{hr} & = & 15^0 \\ ? & = & 30^0 \end{array} \quad 30^0 = \frac{30}{15} = 2\text{hrs}$$

**Therefore 30<sup>0</sup> = 2hrs**

- iv) Mark the town position of the time asked ( Kampala which is WEST of Moshi)
- (v) Since Kampala is to the West of Moshi then SUBTRACT 2hour from 11.00am in the question for an answer

$$( 11.00 \text{ am} - 2\text{hours} = 9.00\text{am} )$$

**Conclusion :- The local time in Kampala 15<sup>0</sup>E is 9.00am**

2. Find the longitude of Burundi where the local time is 3.00pm when the local time of Accra –Ghana at Greenwich Meridian is 2.00pm

- i) Identify given Time ( 3.00pm and 2.00pm )

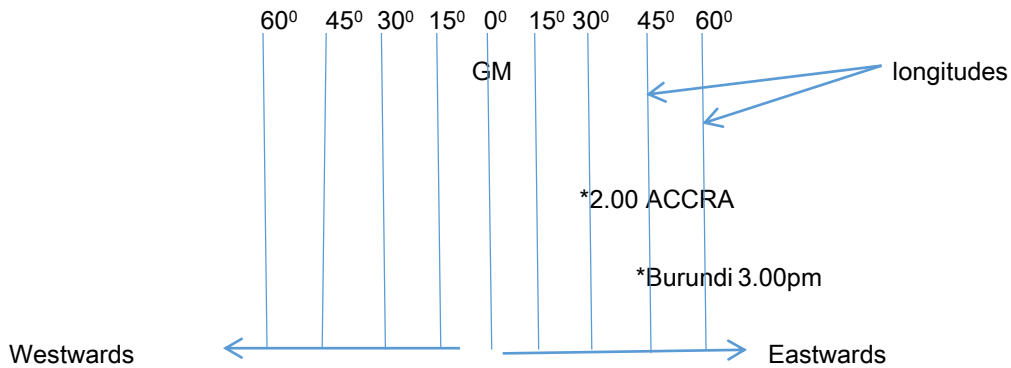
- ii) Find difference in Time

$$( 3.00\text{pm} - 2.00\text{pm} ) = 1\text{hr}$$

- iii) Change difference in time into longitude

From :-  $1\text{hr} = 15^\circ$  Therefore  $1\text{hr} = 15^\circ$

- iv) Mark the town position of the longitude asked ( Burundi 3.00pm which is EAST of Accra –Ghana 2.00pm indicated by their time )



- (v) Since Accra –Ghana is to the East of Burundi then ADD  $15^\circ$  from  $0^\circ$  at Greenwich as per the question for an answer (  $0^\circ + 15^\circ = 15^\circ$  )

**Conclusion :- The longitude of Burundi is  $15^\circ$  E .**

### EXERCISE

#### Instruction

**Show all steps required towards an answer**

1. Calculate the local mean time of Dar es salaam at  $45^\circ\text{E}$  when it is noon at Greenwich?
2. If it is 3.00pm at Tanga  $33^\circ\text{E}$  in Tanzania, What will be the time at Khartum  $50^\circ\text{E}$  in Sudan?
3. What will be the local mean time of Mwanza  $36^\circ\text{E}$  ,If the local mean time of Mogadishu  $45^\circ\text{E}$  IS 12.35pm?

### **BIOLOGY**

#### **Exercise**

1. write True or False for each of the following
  - i. nutrition is the process of an organism to obtain food
  - ii. Biology has two main branches
  - iii. The word laboratory comes from the word laborare
  - iv. Bios means study of
  - v. Virology is one of the main branch of biology.
2. a) I. define the term biology  
b) i. list four importance of studying biology

- ii. Mention two main branches of biology
5. i) in chronological order mention all the scientific procedure/methods used in studying biology
- ii) Mention the SI unity of the following
- a) Temperature                      b) mass                      c) length
6. (a) define biology laboratory
- (b) Mention four qualities of a good laboratory
- (c) List five laboratory rules that you know
7. Write how biology is applied in the following fields
- a. Agricultures
- b. Medicine and pharmacy
- c. Forestry
- d. Nutrition

## **CHEMISTRY**

### **Exercise**

1. a) Define matter
- b) With two examples to each outline three states of matter
- c) Outline six importance's of the changes of states of matter
2. a) Why do we render first aid to the victim? Give two reasons
3. a) Define flame
- b) Write four differences between luminous and non- luminous flame
4. a) what is combustion?
- b) Mention four application of combustion
5. Draw a well labeled diagram of Bunsen burner

# PHYSICS

## Exercise

1. What is science
2. Natural science has two branches (i) \_\_\_\_\_ (ii) \_\_\_\_\_
3. What is physics
4. Physics has two main branches (i) \_\_\_\_\_ (ii) \_\_\_\_\_
5. Physics has many useful applications in our daily lives. Mention any two applications.
6. Physics is related to other subjects. Mention four subject which are related to physics.
7. Define the following terms (i) matter (ii) energy
8. The scientist involved in the study of physics is called \_\_\_\_\_
9. Energy can exist in different forms such as (i) \_\_\_\_\_ (ii) \_\_\_\_\_ (iii) \_\_\_\_\_ (iv) \_\_\_\_\_
10. Mathematics is a tool of physics. Explain the statement.

# KISWAHILI

## ZOEZI LA KWANZA

1. a) Bainisha aina za maneno yaliyopigiwa msitari katika tungo zifuatazo
  - i. Kuku yu bandani.
  - ii. Maskini! Ameumia!
  - iii. Wako hatakiwi hapa
  - iv. Dagaa wa kigoma ni watamu
  - v. Mtoto alikua anacheza mpira

b) Tunga sentensi moja kwa kufuata vipashio vifuatavyo

Mfano N + V + Ts + T

Mwanafunzi Yule hapendi kucheza

- i) W + T + N
- ii) N + V + T
- iii) H + V + Ts + T
- iv) N + t + V
- v) N + V + T + E

2. Eleza maana ya maneno yafuatayo
  - i. Kamusi
  - ii. Sarufi
  - iii. Fasihi
  - iv. Kielezi
  - v. Lugha
3. a) Taja na eleza mambo matano yanayojitokeza katika maana ya lugha.  
b) Taja dhima nne za lugha.
4. a) Eleza maana ya maudhui.  
b) Taja vipengele vitano vianavyounda maudhui ya fasihi.
5. Kwa kutumia mchoro onyesha tanzu za fasihi simulizi na vipera vyake.

## **INFORMATION AND COMPUTER STUDIES (ICS)**

### **Exercise**

- 1 (a) define the term computer.  
  
(b) List four characteristics of a computer
2. Draw the block diagram of the Computer
3. Explain briefly the differences between RAM and ROM
4. Describe three functions performed by central processing unit

## **CIVICS**

### **Exercise**

1. Define the following terms
  - i. Life skills
  - ii. National symbols
  - iii. Family
  - iv. Road accident
  - v. Effective communication
2. Identify six national symbols.
3. Analyse five components that make up our nation.
4. Mention five effects of improper behavior.
5. List five importance of life skills.

## **HISTORY**

### **Exercise**

1. (a) Give the meaning of agriculture  
  
(b) Identify two types of agriculture which are practiced in Africa
2. With examples differentiate the following terms  
  
(a) Permanent crop cultivation and mixed farming  
  
(b) Shifting cultivation and irrigation farming
3. Explain any six advantages of brought by agriculture in man's life

## **COMMERCE**

### **Exercise**

1. Define the following terms;  
  
a) Utility  
  
b) Costs of production  
  
c) Retail trade  
  
d) Hyper market  
  
e) Super market
2. Outline any five qualities of a good retailer
3. a) Define chain of distribution.  
  
b) Draw chain of distribution chart.
4. Mention and explain any five functions of a retailer.
5. Being expert in commerce you can prosper well in life. Discuss (Any five points)

## **BOOK KEEPING**

### **Exercise**

1.Book keeping and accounting depend on each other.Discuss this statement by using three evidence

2.A book keeper and accountant in order to perform their work effectively, they must have knowledge and application of accounting concept and principles.Briefly explain any four accounting concepts and principles.

3.(a)Define cash account

(b)Record the following transactions of MANGI SHOP in the cash account.

Jan 1.Commeced business with Tshs 250,000

Jan 6.Bought furnitures by cash Tshs 40,000

Jan 10.Sold goods worth Tshs 15,000

Jan 14. Paid for transport Tshs 8,000

Jan 18.Bought goods costing Tsh 20,000

Jan 22.Cash sales Tsh 35,000

Jan 25. Paid for electricity Tshs 10,000

Jan 28. Purchased goods costing Tsh 17,000

## **BASIC MATHEMATICS**

### **Exercise**

1. Write each of the following numbers in numerals.

a.]Three thousand, four hundred and ninety six

b.]One billion, two hundred and six millions, four hundred and eight six thousand, one hundred and fifty eight.

2. Write down the place of digit 5 for the following.

a.]95008            b.]245

3. List the first five odd numbers after 100

4. Solve

a.]  $34789 \times 8 =$

b.]  $36063025 \div 35 =$

5. Find the SUM of GCF and LCM of the following

a.] 16,28,32

b.] 12,42,72

6. Simplify the following expressions

a.]  $(12 \times -14 \times 8) \div (-3 \times -4 \times -7 \times -2)$

b.]  $36 \times (6 \times 2) \div 12 + 6 - 9$

7. a.] Find the greatest number which divides 36, 40 and 60 without remainder. b.] Write 780 as the product of its prime factors

8. Write each of the fraction below in words .

a.]  $\frac{6}{15}$

b.]  $\frac{25}{37}$

9. Express each of the following as a mixed fraction

a.]  $\frac{102}{15}$

b.]  $\frac{1000}{333}$

10. Convert the following in to improper fractions

a.]  $101\frac{6}{7}$

b.]  $15\frac{11}{12}$