

# CATHOLIC DIOCESE OF MOSHI

## URU SECODARY SCHOOL

### FORM TWO

### CHEMISTRY

#### Exercise 2

1. a) Define the following

i) a compound      ii) a mixture

b) Mention four differences between mixture and compound

c) Is orange juice a mixture or a compound? Give two reasons

2. Indicate whether each of the following changes is physical or chemical:

i) Rusting of iron

iii) Melting of wax

ii) Souring of milk

iv) Burning of wick

3(a) what is the importance of changing the states of matter?

(b) Explain the significance of separating mixture

4 (a) List eleven methods of separating mixtures

(b) Why do we shake medicine syrup before use?

5(a) Distinguish homogeneous mixture from heterogeneous mixture.

(b) Write down the chemical symbols of the following elements

i) carbon   ii) chlorine   iii) potassium      iv) sulphur   v) sodium   vi) fluorine   vii) iron

### GEOGRAPHY

#### Exercise 2

1. Explain how water source can be conserved in Tanzania for the future generation. Six point.

2. Examine the influence of human economic activities on the destruction of the environment today. Six point.

3. Describe six main procedures that can be used to improve to improve agriculture in Tanzania.

4. What are the current problems facing shipping building industry in Japan? Seven points

5. Explain the six negative impact of tourism in Tanzania

## **BOOK KEEPING**

### **Exercise 2**

1. Outline any five sources of country's revenue.

2. 1July2015 Bank balance....1000

Cash balance....2000

4july 2015 Paid rent in cheque....1200

10july 2015 Paid wages in cash.800

15 July 2015 Received cash from Frida.....2500

23 July 2015 paid Transport in cheque....400

Required

Open double column cash book

3. Give any three difference between government accounting and commercial accounting.

4. Given;

Machinery...100,000

Premises...50,000

Building...200,000

Debtors.....30,000

Creditors....140,000

Loan from NBC..40,000

Net profit....10,000

Capital.....190,000

Required

Prepare statement of financial position as at 31Dec 2017

5. Outline any five errors which do not affect trial balance

## **COMMERCE**

### **Exercise 2**

1. Being an expert in commerce you can prosper well. Discuss this statement with not less than 6 points.

2. Explain six qualities of a good retailer.

3. Differentiate the following terms

a) Manufacturing industry and constrictive industry

- b) Production and utility
- c) Peddlers and road side sellers.

## CIVICS

### Exercise 2

1. Define the following concept and write its two importance

- I) Social problem
- II) Problem solving
- III) Gender
- IV) Multiparty
- V) Democratic Election
- VI) Rule of law
- VII) By -law
- VIII) Equality
- IX) National language
- X) Human right

Essay question

2. Explain six principle of democracy

3. Discuss the problem which associated with drug abuse

## BIOLOGY

### Exercise 2

1. In the following given substances state the food nutrient(s) found in

- |          |            |
|----------|------------|
| a) Onion | d) Fish    |
| b) Peas  | e) Avocado |
| c) Yams  |            |

2. a) What are the small units which build up protein?

b) Distinguish between first class protein and the second class protein, then give two example in each class.

3. a) What is the food chain?

b) Observe the diagram representing the food chain below, then answer the questions that follow.

Grass → Cow → Lion → Hyena → Bater

Which organism is;

- i. Producer
- ii. Secondary consumer

iii. Decomposer

4. a) Differentiate between diffusion and osmosis  
b) What happens when a plant cell is placed in hypertonic solution?
5. a) Define the mammalian heart  
b) Explain why the left ventricle is more muscular than the right ventricle ?

## ENGLISH LANGUAGE

### Exercise

Answer all questions

1. Write the correct progressive or continuous tense of the verbs in brackets.
  - i. They (visit) to Arusha right now.
  - ii. My sister (learn) English language on line.
  - iii. Don't take that book. Judy (read) it.
  - iv. Come after ten minutes. I (cook) food now.
  - v. Yesterday I visited your home. I found your son (water) the garden.
2. Give two examples of the following parts of speech:
  - i. Adjectives: \_\_\_\_\_, \_\_\_\_\_
  - ii. Prepositions: \_\_\_\_\_, \_\_\_\_\_
  - iii. Adverbs: \_\_\_\_\_, \_\_\_\_\_
  - iv. Pronouns: \_\_\_\_\_, \_\_\_\_\_
  - v. Interjections: \_\_\_\_\_, \_\_\_\_\_
3. Write the following sentences in negative form.
  - i. My name is John.
  - ii. He comes late every day.
  - iii. We like watching games on line.
  - iv. We liked your story.
  - v. She has eaten the fruits.

## HISTORY

### Exercise 2

1. Choose best answer.

(i) One of the following is correct about the duties performed by slaves.

Technological duties.

(a) Farming

- (b) Domestic works ( )
- (c) A and B above.

(ii) Trade contact between East Africa and other external societies was initiated by.

- (a) Greek and Romans
- (b) Greek and Arabs
- (c) Arabs and Portuguese
- (d) Persian and Arabs. ( )

(iii) Almost ALL pre- colonial societies passed through this systems

- (a) Capitalism
- (b) Communalism
- (c) Slavery ( )
- (d) Feudalism

(iv) The following formula is correct about the concept of mode of production.

- (a) Mode of production is equal to productive tools and relation of production.
- (b) Mode of production is equal to productive forces and relation of production.
- (c) Mode of production is equal to productive labours and forces of (production.
- (d) Modes of production is equal to tools of labour and object of labour. ( )

(v) Early Portuguese sailors were

- (a) The navigator and Diaz
- (b) King Henry and Vasco da Gama.
- (c) Vasco da Gama and Batholomeo Diaz ( )
- (d) Batholomeo Diaz and King Diaz.

2. Explain the feudal relation (forms of feudalism) that existed in the following areas.

- (a) Interlacustrine region of Lake Victoria
- (b) Indian coast of East Africa

3. Explain five factors for the rise of state in pre- colonial Africa

4. Explain the theory of evolution of man as Charles Darwin state

5. List five impacts of Trans- Saharan trade

## ICS

### Exercise 2

1. With examples, define the following terms:

- |                      |                         |
|----------------------|-------------------------|
| a. Computer software | c. Application software |
| b. System software   | d. Word processor       |

2. With examples, differentiate between computer hardware and computer software.

Write an essay to explain four factors to consider before purchasing operating system.

1. What is word processing?

2. Explain four advantages of word processor over a typewriter, with examples.

## BASIC MATHEMATICS

### Exercise 2

1. By converting the repeating decimal  $1.\dot{9}$  to fractions, show that  $1.\dot{9} = 2$ .

2. Find the simple interest on Tshs 50,000 /- for 18 months at the rate of 10%

3. The age of Asha is  $\frac{2}{3}$  of that of Julieth. If two years ago the sum of their ages were 21 years. What is the present age of Asha?

4. Rewrite the equation  $3y + 4x + 9 = 0$  in the form of  $y = mx + c$  and determine the gradient and y-intercept.

5. Show on a number line  $5 + (-2) = 3$

6. Three fifth of a certain number added to one third of the same number is 14, find the number

7. If  $x*y = (x - y)^2$ , find  $2*(3*5)$

8. Factorize the middle term  $6x^2 + 5x - 1$

9. Given the quadratic equation  $ax^2 + bx + c = 0$  show that  $2ax = -b \pm \sqrt{b^2 - 4ac}$

## KISWAHILI

### Zoezi la 2

1.     a) Nini maana ya lugha?  
  
          b) Taja na eleza mambo muhimu matano yanayopatikana katika maana ya lugha
2.     a) Nini maana ya sarufi?  
  
          b) Fafanua aina nne za sarufi
3.     a) Nini maana ya uambishaji?  
  
          b) Kwa kutumia mifano bainisha dhana ya uambishaji
4.     Eleza dhana, aina na chanzo cha misimu
5.     a) Nini maana ya utata  
  
          b) Bainisha sababu tano za utata

## PHYSICS

### Exercise 2

#### Equations of uniformly accelerated Motion

Three questions of a uniformly accelerated Motion are:-

1<sup>st</sup> Equation expressed as :-  $v = \dots\dots\dots$

2<sup>nd</sup> Equation expressed as :-  $s = \dots\dots\dots$

3<sup>rd</sup> Equation expressed as; -  $v^2 = \dots\dots\dots$

Whereby ; -  $u$ , represent initial velocity

$v$ , represent initial velocity

$a$ , represent acceleration

$t$ , represent time

$s$ , represent distance

Choose the appropriate question which is the formula to complete the solutions of the question below:-

1. A car travels from rest and accelerates uniformly to a maximum velocity of 25m/s after 5 seconds. Calculate:-

- a) acceleration
- b) distance covered

Data

Initial velocity ( $u$ ) = 0m/s

Final velocity ( $v$ ) = 25m/s

Time ( $t$ ) = 5sec.

Distance ( $s$ ) =

Acceleration ( $a$ ) =

Formula

a)  $a =$

b)  $s =$



2. A body travelling with a velocity of 15m/s accelerates at a rate of  $2\text{m/s}^2$  and covers a distance of 100m. Find its maximum velocity (From the data, use the formula,  $v^2 = u^2 + 2as$ )

Data

Initial velocity ( $u$ ) = 15m/s

Final velocity ( $v$ ) =

Distance ( $s$ ) = 100m

Acceleration ( $a$ ) =  $2\text{m/s}^2$

Formula

3. A body travelling with a velocity of 10m/s accelerates at a rate of  $4\text{m/s}^2$  until it reaches its final velocity after 10seconds. Find:-
- a) final velocity
  - b) distance covered



