CATHOLIC DIOCESE OF MOSHI

URU SECONDARY SCHOOL

FORM THREE

ENGLISH LANGUAGE

EXERCISE 3

(1)Complete the following sentences by supplying the missing prepositions.

(A).He was generally known………………. the name mwalimu.

(B).The thief was led away ……………………….heavy guard.

(C).We stayed………………a nice hotel.

(D).The nurse carefully spread the cloth……………the table.

(E).He travelled to Arusha……..aeroplane.

(2).Rewrite the following sentences according to the instructions given after each.

(A)Mwakaleba was nervous. Rage was equally nervous. (Join the sentence using "as".)

(B)Whose pen is this?(Begin; To whom)

(C)He sells salt and sugar (Rewrite using "not only")

(D)George has finished reading the newspaper.(Add a question tag.)

(E)If you don't work hard, you will never achieve.(Begin; unless)

(3)Read the novel "UNANSWERED CRIES "then analsyse the following things.

(a)Author…………….

(b)Setting………………

(c)Publisher………………

(d)Two (2) main characters with their characterization.

(e)Three (3) other characters with their characterization.

(f)Write five (5) themes then explain them with examples from the novel.

BASIC MATHEMATICS

Exercise 3

INSTRUCTIONS

The following constants may be used: The Radius of the Earth R = 6400km

1(a)   A shopkeeper sold 392 T-shirts at the price of

Tshs.7,950/= each. Approximate how much money he got.

 (b)   Express 0.9 in the form of where a/b and b are integers such that b ≠ 0.

2(a)   Solve the value of x if $\left(\dfrac{1}{16}\right)^{x+3} \times \left(\dfrac{1}{32}\right)^{-x} = 1$

b) Given that log2 = 0.3010, log5= 0.6990, log7= 0.8451

Evaluate $\log\left(\dfrac{35}{2}\right)$

(c)   There are 48 men at a meeting of whom 24 are teachers, 36 are parents and 16 are both teachers and parents.   By using Venn diagram, find the number of men who are neither teachers nor parents.

3. (a)The length of two sides of a triangle are 16cm and 20cm. Find the area of the triangle if the inclined angle is 30°.

(b)   Calculate the size of an interior angle of a regular nonagon.

4.   (a)   The price of TV set which includes V.A.T is

Tshs.140,800/=. If the rate of V.A.T. is 30%, find the price of the TV before V.A.T was added.

9 workers working 8 hours a day to complete a piece of work in 52 days. How long will it takes 13 workers to complete the same job by working 6 hours a day.

The ratio of men: women: children living in Momela village is 6:7:3. If there are 42,000 women, how many

(i)   Children live in Momela village

(ii)   People altogether live in Momela village.

5. If the 42000 women is an increase of 20% of the number of women 10 years ago. How many women lived in the village 10 years ago?

The third, fourth and eighth terms of an A.P forms the first three consecutive term of a G.P. If the sum of the first 10 terms of the A.P is 85, find:

(i) The first term of the arithmetic progression

(ii) The common ratio of G.P.

(iii) The sum of the first 7 terms of the G.P.

6 (a) Factorize completely $2x^2 + x - 10$ by splitting the middle term.

(b) Solve the equation $\sqrt{x^2+7} = 7 + x$

7. The following marks were obtained by 32 students in a Mathematics examination.

32	35	42	50	46	29	39	64
37	48	52	37	58	52	48	45
37	42	64	37	34	28	58	54
57	54	62	48	67	38	36	34

(a) Prepare a frequency distribution table using the class intervals 24 – 29, 30 – 35 etc

(b) Draw the histogram

(c) Draw a cumulative frequency curve and use it to estimate the median.

(d) Find the mean mark

COMMERCE

Exercise

1. Amina is studying form 3, and wants to open bank account for the future use, but she doesn't know what type of bank account to open, as a business student advice her what type of account to open and give six reasons to open that bank account.

2. In order for the go down to operate efficiently there are factors to keep into consideration. Outline any six factors

3. Stock control is very important in the stock management, explain six reasons for the stock control.

CHEMISTRY

Exercise 3

1. A gas occupies $1.95dm^3$ at S.T.P. Calculate the number of
   a. Mole in the gas
   b. Molecules in the gas

2. a. Calculate the number of moles of hydrochloric acid that reacts with 0.25moles of calcium carbonates.

    b. Calculate the volume of carbon dioxide produced when 30g of calcium carbonate reacts with excess hydrochloric acid at S.T.P

3. a. What is molarity of 5.3g Na_2CO_3 in $100cm^3$ of solution?

    b. What is the mass of sodium hydroxide contained in $25cm^3$ of 0.1M NaOH

KISWAHILI

Zoezi la 3

1. a. Kwa kutumia mifano taja kazi tano za viambishi awali katika kitenzi

    b. Andika sentensi zifuatazo katika hali ya ukanushi

    i. Ameshiba sana

    ii. Watoto wengi wanaogelea

    iii. Mvua ilinyesha kwa wingi sana

    iv. Kjana anakula chakula kingi

    v. Mimi nasoma polepole.

2. Toa maana tano tofauti za neno "kibao" kasha tunga sentensi moja kwa kila maana uliyotoa.

3. Taja njia iliyotumika kupata maneno yafuatayo katika lugha ya Kiswahili

    i.   Waya

    ii.   Harakaharaka

    iii.   Pikipiki

    iv.   Mbwa mwitu

    v.   WAWATA

4. Jifanye kuwa umepata barua ya mwaliko wa sherehe ya siku ya kuzaliwa kwa rafiki yakoaitwaye Kate Mfute itakayofanyika tar. 20/05/2020. Kwa bahati mbaya umepata safari ya kikazi. Andika barua kumtaarifu rafiki yako kuwa hutohudhuria sherehe hiyo. Jina lako liwe Tumaini Kijo wa S.L.P 220 Bondeni.

5. Kwa kutumia mifano toa hoja nne zinazothibitisha kufanana kwa vitenzi vya Kiswahili na vile vya lugha ya Kibantu

ICS

Exercise 3

1. Explain four types of system software
2. Analyse four types of application software

3. Explain five components of a computer system
4. Explain four components of a computer hardware

BIOLOGY

Exercise 3

1. (a) Distinguish between Osmosis and Diffusion.

   (b) What happens if the plant cell is placed in hypertonic solution?

2. (a) Write any four (4) functions of blood.

   (b) Give the reason why the left ventricle is more strong and muscular than the right ventricle?

3. (a) Explain the difference between double circulatory system and pulmonary circulatory system.

   (b) Mention the components of the blood passing through the hepatic portal vein.

4. (a) What is Excretion?

   (b) Mention out the excretory products eliminated through the following excretory organs;

   (i) Skin

   (ii) Lungs

   (iii) Kidney

)iv) Liver

5. (a) Define Kidney

   (b) Draw the well labeled large diagram of Kidney.

HISTROY

Exercise 3

1. Differentiate between direct rule and indirect rule
2. Why did British preferred than direct rule?
3. Explain the impacts of indirect rule on Africa.
4. What were the weaknesses and strengths of indirect rule?
5. What were the similarities of direct rule and indirect rule?

CIVICS

Exercise 3

1. Asses the challenges facing water sector in Tanzania.

2. What are the problems facing health sector in Tanzania?

3. Identify the roles of the government in provision of social services in Tanzania.

4. How does private sector helps in provision of social services in Tanzania?

PHYSICS

Exercise 3

1. Match the terms in list A with responses in list B by writing the letter of the current response beside the number in the answer

2. box provided below:-

LIST A		LIST B
(i)	The eye lens becomes thick when contracted and thin when relaxed.	A. Short sighted B. Long sight
(ii)	Prevent the internal reflection of light in the eye.	C. Cilliary muscles
(iii)	The thick and transparent protective cover in front of the eye lens which refracts light most.	D. Suspensory ligament E. Binocular vision
(iv)	Hold the eye lens in position.	F. Retina
(v)	Provides two images of the same object which are slightly different in perspective.	G. Aqueous humour H. Vitreous humour
(vi)	The light sensitive area of cells at the back of the eye.	I. Pupil
(vii)	Images of distant objects which are focused in front of the retina.	J. Fovea centralis K. Iris
(viii)	The circular opening in the iris through which light passes.	L. Cornea
(ix)	The most light sensitive spot on the retina.	M. Slim lens
(x)	The coloured circle round the eye lens.	N. Choroid layer O. Fatter lens

LIST A	i	ii	iii	iv	V	vi	vii	viii	ix	X
LIST B										

3. (a) State nature of the image produced by the lens camera

   (b) What is meant by magnification of lens camera?

   (c) If :- v = image distance ,

   U = focal length and

   M = magnification

   Show that $M = \frac{f}{u-f}$ (Start from $\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$)

   (d) A lens camera is to take a picture of a pupil who is 160cm tall, if the lens of the camera has a

focal length of 15cm and if the pupil is 45cm from the camera.

Applying the formula;-

- $M = \frac{v}{u}$

- $M = \frac{\text{height of the image}}{\text{height of the object}}$ or $M = \frac{f}{u-f}$

(i)   Calculate the magnification of a lens camera.

(ii)   Find the height of the formed image.

GEOGRAPHY

Exercise 3

1. (a)Write the short notes on the following geographical terms,

       (i)   Metamorphic rocks

       (ii)   Sedimentary rocks

       (iii)   Igneous rocks

    (b) Why do you understand it is important to learn the geological time scale?

2. Study carefully the data below and answer the questions that follow; 16, 24, 18, 28, 8, 22, 22, 10

       (i) Find the Mean, Median and Mode

       (ii) Determine the Standard deviation

3   (a)What is the meaning of survey?

    (b) What is the function of the following terms;

       (i) Pegs

       (ii) Chain

       (iv)   Cross staff

     4. If it is 3:00pm at Morogoro town 33E in Tanzania what will be the time at Tehran

BOOK KEEPING

Exercise 3

1. What are the difference between; a) net profit and surplus?

    b) Cash book and Cash account

    c) Deficit and net loss

2. Given the following transactions;

Sales........... 250,000

Sales return.....10,000

Debts written off...15,000

Discount allowed...20,000

Purchases return....8000

Discount received..4000

purchase....................50,000

Inventory at start.......15,000

Paid labour.............6000

Salaries balance...8000

Additional information at the end of the year;

I) Wages unpaid 1000

ii) Salaries prepaid 2000

iii) Inventory at close 4000

Required

Prepare Income statement for the year ended 31st Dec 2019

3. Outline any five merits of keeping book keeping records.

4. Catholic Diocese of Arusha bought two Machines ,the first one was bought for tsh 600,000/= on 1st January 2010 and the second machine for tsh 300,000 on 1st July 2011.The first machine was sold for tsh 50,000

On 1st September 2012.The rate of depreciation is 10% reducing balance method full year depreciation.

Required

 a) Machine account

b) Provision for depreciation account

C) Disposal account

d) Profit and loss a/c

e) Balance sheet

5. a) Define Manufacturing account

b) Give format of preparing statement of calculating accumulated fund.

LITERATURE IN ENGLISH

Exercise 3

1. Explain the following types of Drama

   i. Tragedy

   ii. Comedy

   iii. Tragedy comedy

   iv. Historical drama

   v. Melo drama.

2. Differentiate plays from other literacy genres like Novels and Poems.

3. Explain the difference between act and scene.