Student's Assessment Number: _____

TANZANIA HEADS OF ISLAMIC SCHOOLS COUNCIL

FORM TWO INTER ISLAMIC MOCK ASSESSMENT

MATHEMATICS

043

TIME: 2:30 Hours **Thursday, 30th July 2026 a.m.**

Instructions

1. This paper consists of ten (10) compulsory questions.
2. Answer **all** questions.
3. Each question carries ten (10) marks.
4. Show all the working and answers in the spaces provided.
5. All writings must be in blue or black ink, except for drawings, which must be in pencil.
6. Communication devices and any unauthorised materials are not allowed in the assessment room.
7. Write your Assessment Number at the top right corner of every page of this paper.

FOR ASSESSOR'S USE ONLY		
QUESTION NUMBER	**SCORE**	**ASSESSOR'S INITIALS**
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TOTAL		
CHECKER'S INITIALS		

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TANZANIA HEADS OF ISLAMIC SCHOOL COUNCIL

FORM II INTER ISLAMIC MOCK EXAMINATION 2026

MATHEMATICS

MARKING SCHEME

1. (a) Let $x = 0.\dot{2}$……(i)

$10x = 2.\dot{2}$……..(ii)

$10x - x = 2.\dot{2} - 0.\dot{2}$ **(00½ Mark)**

$9x = 2$ **(00½ Mark)**

$x = {}^{2}/_{9}$ **(00½ Mark)**

Let $y = 0.\dot{3}$……(i)

$10x = 3.\dot{3}$……..(ii)

$10x - x = 3.\dot{3} - 0.\dot{3}$ **(00½ Mark)**

$9x = 3$ **(00½ Mark)**

$x = {}^{3}/_{9}$ **(00½ Mark)**

(i) $x + y = {}^{2}/_{9} + {}^{3}/_{9}$

$= \frac{2+3}{9} = {}^{5}/_{9}$

$\therefore x + y = {}^{5}/_{9}$ **(01 Mark)**

(ii) $xy = {}^{2}/_{9} \times {}^{3}/_{9}$

$= {}^{2}/_{9} \times {}^{1}/_{3} = {}^{2}/_{27}$

$\therefore xy = {}^{2}/_{27}$ **(01 Mark)**

(b) Let the total number of trouser be y **(00½ Mark)**

Blue: White: Green = 3:4:5

Total = 3+4+5 = 12 **(00½ Mark)**

White: $\frac{4}{12}y = 20$ **(00½ Mark)**

$y = \frac{20 \times 12}{4} = 60$ **(00½ Mark)**

$\therefore$ Total number of trouser = 60 **(01 Mark)**

Blue: $\frac{3}{12} \times 60 = 15$

$\therefore$ There are 15 blue trouser **(01 Mark)**

Green: $\frac{5}{12} \times 60 = 25$

$\therefore$ There are 25 blue trouser **(01 Mark)**

Alternatively

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Student's Number.....

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF DEFENCE AND NATIONAL SERVICE

MILITARY SCHOOLS ASSOCIATION

FORM TWO PRE NATIONAL ASSESSMENT

043 **MATHEMATICS**

TIME: 2:30 Hours **04th AUGUST 2026**

INSTRUCTIONS

1. This paper consists of ten (10) questions
2. Answer **all** questions showing clearly all the working and answers the space provided.
3. Each question carries **ten** (10) marks.
4. All writing must be in **blue** or **black** ink **except** drawing which must in pencil
5. Non-programmable calculators, geometrical instruments and graph papers may be used where necessary.
6. Communication devices and any unauthorized materials are **not** allowed in the assessment room.
7. Write your **Assessment Number** at the top right corner of every page

FOR ASSESSOR'S USEONLY		
QUESTION NUMBER	**SCORE**	**EXAMINER'S INITIALS**
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CHECKER'S INITIALS		

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Student's Assessment number... ... ...

THE PRESIDENT'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

KILIMANJARO REGIONAL COMMISSIONER'S OFFICE

FORM TWO POST MOCK EXAMINATION

043 MATHEMATICS

Time: 2:30 Hours **Tuesday, 11st August,2026 a.m.**

INSTRUCTIONS

1. This paper consists of **ten (10)** questions.
2. Answer **all** questions.
3. Each question carries **ten (10)** marks.
4. Show clearly all the working and answers in the space provided.
5. All writing must be in **blue** or **black** ink except drawings which must be in **pencil**.
6. Mathematical tables, geometric instruments and graph papers may be used where necessary.
7. Communication devices, calculators and any unauthorized materials are not allowed in the assessment room.
8. Write your ***Assessment Number*** at the top right corner of every page.

FOR ASSESSOR'S USE ONLY		
QUESTION NUMBER	**SCORE**	**ASSESSOR'S INITIALS**
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THE PRESIDENT'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

KILIMANJARO REGIONAL COMMISSIONER'S OFFICE

FORM TWO POST MOCK EXAMINATION

MATHEMATICS

043

MARKING SCHEME

1. (a) A student is required to describe the relationship between mathematics and Physics, chemistry and Agriculture.

Relationship between mathematics and physics

The knowledge of mathematics is applied/used in physics to carry out various calculations including finding velocities, acceleration, speed, wave length etc. **(02marks)**

Relationship between mathematics and chemistry

The knowledge of mathematics is applied/used in chemistry to carry out various calculations including finding number of moles, concentrations of chemicals, balancing number of moles in chemical equations, relative atomic mass, molecular formulae etc. **(02marks)**

Relationship between mathematics and Agriculture.

The knowledge of mathematics is applied/used in Agriculture to determine suitable amount of water to be used in irrigation and the spacing between seedlings, also mathematics used to determine the investment, expenditure and savings in cultivating a specific crop **(02marks)**

(b) At KAWAWA village, the ratio of men, women and children living there is 6:7:3. there are 4200 women, find how many;

(i) Children living in the village.

Solution

Number of women= 4200

Let T be the total number of villagers

Men: women: children= 6:7:3

$6+7+3= 16$ **(01mark)**

$\text{Women} = \frac{7}{16} \times T$ **(01mark)**

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PRIME MINISTER'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
FORM TWO EXAMINATION
BASIC MATHEMATICS

TIME 2:30 HRS **YEAR 2026**

INSTRUCTIONS

1. This paper consists of **ten (10)** compulsory questions
2. Show clearly **ALL** the working and answer in the space provided
3. All writings must be in blue or black ink **EXCEPT** drawings which must be in pencil
4. Non programmable scientific calculator, geometrical instruments and graphs may used where necessary
5. All communication devices and any other unauthorized materials are **NOT** allowed in the examination room.

FOR EXAMINER'S USE ONLY		
QUESTION NUMBER	SCORE	EXAMINER'S INITIAL
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1. A community in UBN District planned to construct a new health centre. During the project, different professionals used mathematics in various ways. Engineers measured

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the land and calculated the amount of construction materials required. Accountants prepared the project budget and recorded expenses. Builders measured walls, doors, and windows to ensure the building was constructed correctly. After completion, health workers used mathematical calculations to prepare medicine dosages and analyze patient records.

(a) Using the information in the scenario, explain six importance of Mathematics in everyday life.

(b) The base of a lid of bucket has an area of $\frac{25}{4284}\ \pi\ m^2$. Find its diameter in decimal

2. Neema, a Form One student, visited a supermarket with her mother. They bought sugar weighing 2.48 kg, rice weighing 5.73 kg, and cooking oil costing TSh 18,965. At the checkout, the cashier rounded the weights and the total cost to make quick estimations before calculating the exact values. Neema wanted to know why approximation is important in everyday life.

(a) Explain what is meant by approximation in Mathematics.

(b) Using the information in the scenario, round the following numbers to the nearest whole number:

- (i) 2.48 kg
- (ii) 5.73 kg
- (iii) TSh 18,965 to the nearest thousand.

(c) Explain four importance of approximation in everyday life.

3. (a) A clothing company sell t-shirts which are in three colours; red, blue and green. The colours are in the ratio of 3 to 4 to 5, respectively. If the shop has 20 blue t-Shirts, how many t-shirts are there in the shop

(b) A rational number **N** is equal to $\frac{2}{5}$ times the sum of $\frac{24}{7}$ and $\frac{1}{14}$. Find the number **N**

4. A box has square base of side 10cm and height 15cm. If the sides increase by 5% and height by 10%

(a) What is the new volume of the box?

(b) What is the percentage increase in the volume of the box?

5. (a) In a village water project, a deep well is to be drilled. The temperature at x metres below the Earth's surface is given by $T=30+25(X-3)$, $5\leq X\leq 75$ where T is the minimum depth for the temperature to be greater or equal to 155º ?

(b) A school canteen sells chapati and samosa during break time. One day, Amina bought 2 chapatis and 3 samosas and paid TSh 4,500. Later, John bought 3 chapatis and 2 samosas and paid TSh 4,700. The canteen manager wanted to know the price of each item so that he could prepare a new price list.

(i) Form a pair of simultaneous equations representing the situation.

(ii) Solve the simultaneous equations to determine:

- The price of one chapati.
- The price of one samosa.

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(iii) Explain two advantages of using simultaneous equations in solving real-life problems.

6. (a) A straight line passes through the points (2,1) and gradient of $\frac{1}{2}$ .Find its

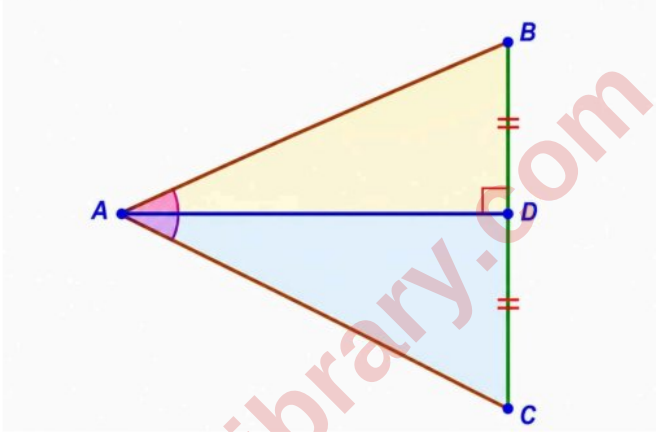
(i) Gradient

(ii) Equation in the form of $ax + bx + c = 0$

(iii) x and y-intercept

(b) Draw a straight line which passing through the points (2, -1) and a gradient of $\frac{1}{2}$.

7. (a) Use the following figure to prove that triangle ADB is Congruent to triangle ADC and Side DB is Equal to side DC



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(b) Study the following figure and answer the questions that follow.

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FORM TWO MATHEMATICS
MARKING SCHEME

1. a) i) Help in solving everyday problems.
ii) Supports construction and engineering
iii) Improves financial management.
iv) Promotes scientific and technological development
v) Assists in the health sector.
vi) Enhances logical and critical thinking
06marks

b)
Given:
Area of circle $= \frac{25}{4284}\ \pi m^2$.
We know:
$Area = \pi r^2$.
So,
$\pi r^2 = \frac{25}{4284}\pi$
Cancel π both sides.
$r^2 = \frac{25}{4284}$
$r = \sqrt{\frac{25}{4284}} = \frac{5}{\sqrt{4284}}$

$\sqrt{4284} \approx 65.45$
$r \approx \frac{5}{65.45} \approx 0.0764m$.
Diameter $= 2 \times r$
$d = 2 \times 0.0764 \approx 0.15m$.
Answer: Diameter $\approx$ 0.15m. 04marks.

2. a) Approximation means finding a value that is close to the exact value. 02 marks

b) i) 2.48 kg.
2.48 kg $\approx$ 2kg. 02marks

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Student's Index Number …….

THE PRIME MINISTER'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT AUTHORITIES'

IRAMBA DISTRICT COUNCIL

SERIES 03 EXAMINATIONS

FORM TWO

043 **MATHEMATICS**

TIME: 2:30HRS **JULY 2026**

INSTRUCTIONS

- Answer All Questions

1. (a) Explain three importances of mathematics in daily life and give one real – life example where mathematics is used in your community.
   (b)(i) Represent $-4 \leq x < 5$ on a number line, where x is a real number

   (ii) A submarine which is 200m below sea level targets an earoplane 200m above the sea level. What is the distance between them?

2. (a) A fraction was converted to decimal and the result was 0.441441441…… Find the fraction and express it as a ratio.
   (b)Two pipes A and B are used to fill a water tank. Pipe A can fill the tank in 6 hours while pipe B can fill the same tank in 4hours. If both pipes are opened at the same time, how long will it take to fill the tank?
   (c)A traveller exchange USD 500 to Tsh, at a rate of 1usd = 2,500/= Tsh. How many Tsh did the traveller receive?

3. (a)(i)If x varies directly as y and inversely as z and x = 8, when y = 12 and z = 6, find the value of x when y = 16 and z = 4.
   (ii) A contractor is estimating the building materials for a classroom. He needs 49 bags of cements @19700/=, two trips of sand @56500/= and 2 backets of paint @147500/=. Estimate the total cost of the materials required.
   (b) Write the number 0.002758 correct to;
   (i) 2 significant figures
   (ii) 3 decimal places

4. (a) (i) In the following figure $BF = CE$; prove that $CF = BE$

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MS – MATHEMATICS FORM II – 2026

1. (a) Importance of Mathematics:

i) In business and trade is used to calculate profit, loss, prices (01)

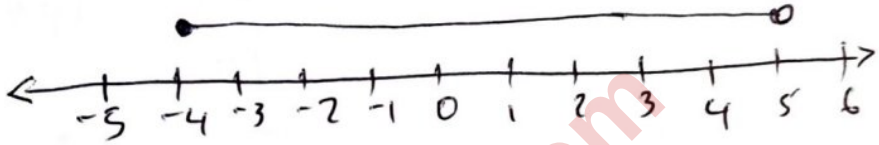
ii) In construction is used for designing and measurement (01)

iii) In transportation is used to calculate, distance, speed and fuel used (01)

Example: Shopkeeper calculating the total price of goods (01)

(*) Any relevant importance should be considered.

(b) (i) $-4 \leq x < 5$



(03)

(ii) submarine distance $|-200|$

aeroplane distance 200

total $|-200| + 200$

$= 200 + 200$

$= 400$ m. (03)

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THE UNITED REPUBLIC OF TANZANIA

PRIME MINISTER'S OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

MOROGORO REGIONAL FORM TWO TERMINAL EXAMINATION



043 MATHEMATICS

TIME: 2:30Hrs YEAR: 2026

INSTRUCTIONS

1. This paper consists of **ten (10)** questions.
2. Answer **all** questions.
3. Each question carries te**n (10)** marks.
4. Show clearly all the working and answers in the space provided.
5. All writings must be in **blue** or **black** ink **except** drawings which must be in pencil.
6. Non- programmable calculator, geometrical instruments and graphs may be used where necessary
7. Communication devices and any unauthorized materials are **not** allowed in the Examination room

FOR ASSESSOR'S USE ONLY		
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS
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PRIME MINISTER'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

REGIONAL MOCK EXAMINATION

MATHEMATICS MARKING SCHEME

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YEAR: 2026

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PRIME MINISTER'S OFFICE – REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
MWANZA CITY COUNCIL
FORM TWO PRE-MOCK ASSESSMENT
BASIC MATHEMATICS

CODE: 041

TIME 2:30HRS MORNING 25th MAY 2026

INSTRUCTIONS

1. Answer all questions
2. Non-programmable calculator may be used.
3. Write your name on every page of the paper

1. (a) Represent the solution of each of the following on a number line.

(i) $\left|\frac{-2}{3}x - 4\right| < 2$.

(ii) $|-2 - y| > 3$.

(b) If x = $0.1\dot{5}$ and y = $0.\dot{3}$ find the value in each of the following fraction.

(i) x + y

(ii) x/y

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(i) $\left|-\frac{2}{3}x-4\right| < 2$.

$\pm\left(-\frac{2}{3}x-4\right) < 2$

$-\frac{2}{3}x-4 < 2$ or

$\frac{2}{3}x+4 < 2$.

From $-\frac{2}{3}x-4 < 2$

$-\frac{2}{3}x < 2+4$.

$\frac{3}{2}x-\frac{2}{3}x < 6 \times \frac{3}{2}$

$x > -9$.

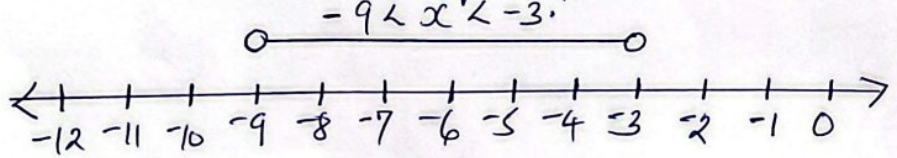
From $\frac{2}{3}x+4 < 2$

$\frac{2}{3}x < 2-4$.

$\frac{3}{2}x\frac{2}{3}x < -2 \times \frac{3}{2}$.

$x < -3$.

Combined Inequality: $-9 < x < -3$



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EXAMINATION SERIES FOR SECONDARY SCHOOLS

FORM TWO

B/MATH

QUESTIONS AND ANSWERS

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FORM ONE TOPICS
1. CONCEPT OF MATHEMATICS
2. NUMBERS
3. APPROXIMATIONS
4. RATIO AND PROPORTIONS
5. ALGEBRA
6. COORDINATE GEOMETRY

FORM TWO TOPICS
1. RATES AND VARIATIONS
2. CONGRUENCE
3. SIMILARITY
4. ALGEBRA
5. EXPONENTS AND RADICALS
6. LOGARITHMS
7. SETS
8. TRIGONOMETRY

MY EXAMINATIONS FORMAT

1. (a) CONCEPT OF MATHEMATICS.

   (b) NUMBERS
2. (a) APPROXIMATIONS

   (b) ALGEBRA F1
3. (a) RATIO AND PROPORTIONS

   (b) RATES AND VARIATIONS
4. ALGEBRA F2
5. COORDINATE GEOMETRY
6. (a) CONGRUENCE

   (b) SIMILARITY
7. EXPONENTS AND RADICALS
8. LOGARITHMS
9. SETS
10. TRIGONOMETRY

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