

MINISTRY OF EDUCATION, SCIENCE & TECHNOLOGY
NGWELO SECONDARY SCHOOL
MID – TERM EXAMINATION
FORM II
041- BASIC- MATHEMATICS

TIME:2:30HOURS March: 2023

INSTRUCTIONS:

1. *This paper consists of ten questions.*
2. *Answer all questions*
3. *Each question carries ten (10) marks.*

1. (a) The traffic lights at different road junctions in Dar es Salaam show the green light at intervals of 15, 20 and 25 seconds. If they all show all green together at 7:00am. What time next will they show green together?
(b) Anna spent $\frac{7}{9}$ of her income and remained with 88100 Tanzanian shillings. What was her income?
2. (a) Express $0.\dot{5}\dot{8}$ as in fraction.
(b) Round off 349.678 to the nearest,
 - a) Tens.
 - b) Hundredths.
 - c) 2 significant figures.
3. (a) A lorry weighs 7.5 tonnes. If the total mass of bricks carried by the lorry is 5 tons 400 kilograms 50 grams. What is the total weight of the lorry and bricks?
(b) The cost of printing a pattern in a cloth is 250 Tanzanian shillings per square metres. Find the cost of printing a right triangular piece of cloth whose base is 30m and its hypotenuse is 50m.
4. (a) Represent all real numbers x such that $-\frac{5}{3} \leq x < 2$ on a number line.
(b) Alfred bought a car for 4,700,000 Tanzanian shillings and spent 600,000 Tanzanian shillings to repair it. If he sold the car for 5,600,000 Tanzanian shillings, what was his profit?

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