THE PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
MBOZI DISTRICT-SONGWE
J.P.MAGUFULI SECONDARY SCHOOL
FORM TWO MID-TERM EXAMINATION-MARCH 2024
BASIC MATHEMATICS

TIME:02½ **HOURS**

INSTRUCTIONS:

1. *This paper consists of ten(10)compulsory questions*
2. *Show your work clearly*
3. *All writing must be in blue or black ink, except drawings which should be in pencil.*

SECTION A

1.(a) If $(3^{(x+2)})(2^{(2y-3)})=72$,find the value of **x** and **y**

(b) Express the following radicals in their most simplified form

(i) $\sqrt{75} \div \sqrt{12}$

(ii) $6\sqrt{5} \times 2\sqrt{2}$

$\sqrt{20} \times 3\sqrt{21}$

2.(a)Rationalize the denominator in $\dfrac{\sqrt{3}+2}{\sqrt{5}-\sqrt{3}}$

(b) If $V=\pi r^2 h$, make **r** the subject of the formula.

3.(a)The operation x*y=is defined as $2x + y^2$. Find the value of the following

(i) 3*2 (ii) (1*3)*2

(b) Remove the brackets and simplify:

(i) 2(5p + 4x) (ii) 2πr(r + h)

4.(a)(i)Expand$(6x + 5)^2$

(ii)Find the coefficient of **n** and $\mathbf{n^2}$ in the Expansion of (n + 9)(n + 3)

(b)Factorize **abc + bcd + cde**

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