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CLASS:	

NATIONAL SENIOR CERTIFICATE

GRADE 12

JUNE 2024

TECHNICAL MATHEMATICS P2 SPECIAL ANSWER BOOK (DEAF)

QUESTION	MARKS		(I	HOD Level 1 mod	L)		DISTRICT Level 2 mod		ROVINCIA Level 3 mod	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11						·				·
TOTAL										

This special answer book has 25 pages.



FOLLOW THESE INSTRUCTIONS CAREFULLY

- 1. **Answer ALL questions** in the spaces provided.
- 2. **No pages** may be **torn** from this ANSWER BOOK.
- 3. Answers must be written in black/blue ink as distinctly_(clearly) as possible. Do not write in the margins.
- 4. **Indicate**(show) the **questions** you have **answered** by **drawing** a **circle** around the **relevant numbers** on the **front cover** of the ANSWER BOOK where **marks** are to be **recorded**.
- 5. Draw a line through any work/rough work that must not be marked.
- 6. In the **event** that you **use** the **additional space provided**:
 - 6.1 **Write** down the **number** of the **question**.
 - 6.2 Leave a line and rule off after your answer.



.

	Solution	Marks
	A (15; 18) B (23; 5)	
1.1		(4)
1.2		
		(3)



	Solution	Marks
1.3		
		(4)
1.4		
		(5)
		[16]



. .

2.1.1 2.1.2 2.1.2 2.1.3 (4)		Solution	Marks
2.1.2	2.1		
2.1.2	2.1.1		(1)
2.1.3	2.1.2		
	2.1.3		(4)

	Solution	Marks
2.2		
		1
	 	
		(2)
		(3) [10]



__7

3.1	у	
	$A(a; \sqrt{3})$ θ	
3.1.1		
3.1.2		(3)
3.1.3		(1)

8	TECHNICAL MATHEMATICS P2 (DEAF LEARNERS)	(EC/JUNE/JUNIE 2024)
3.2		
		(4)
		[11]

9

	Solution	Marks
4.1	$\sin(180^{\circ} - \theta)\tan(180^{\circ} + \theta)\sin(270^{\circ})$	
	$\cos(360^{\circ} - \theta)\tan(180^{\circ} - \theta)$	
		(6)



4.2	$(\csc B - \cot B)^2 = \frac{1 + \cos B}{1 - \cos B}$	
	1 000 0	ı
		ı
		ı
		ı
		ı
		ı
		ı
		ı
		(6)
		[12]



11

	Solution	Marks
5.1		
		(1)
5.2		
		(1)
5.3	^	(1)
		(0)
5.4.1	▼	(8)
		(2)
5.4.2		
		(2)
		(2) [14]



	Solution	Marks
6.1		
6.2		(1)
0.2		
	A 7° 9° D	
6.2.1		
0.2.1		_
		(2)
6.2.2		(-)
		-
		_
6.2.2		(2)
6.2.3		
		_
		1
		-
		(4)



(EC/JUNE/JUNIE 2024)

TECHNICAL MATHEMATICS P2 (DEAF LEARNERS)

	Solution	Marks
6.2.4		
		(2)
6.2.5		
		(3)
		[14]



	Solution	Marks
	$P = \begin{bmatrix} 0 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 &$	
7.1		
		(6)
7.2		
		(5)



(EC/JUNE/JUNIE 2024) TECHNICAL MATHEMATICS P2 (DEAF LEARNERS) 15

	Solution	Marks
7.3		
		_
		(2)
		(3)
		[14]



8.1 8.1 (8) (8) (9)		Solution	Marks
8.2 (8)		$\begin{bmatrix} 1 & 2 & 3 & 2 & 3 & 4 \\ x & 2 & 3 & 4 & 4 & 4 \\ & & & & & & & & & & & & &$	
8.2 (1)	8.1		
8.2 (1)			(8)
8.3	8.2		
(5)	8.3		
		. N Å 4 .	(5) [14]

<u>17</u>

	Solution	Marks
	P C P P P P P P P P P P P P P P P P P P	
9.1		
9.2		(3)
		(3)
9.3		
		(6) [12]
		[12]



	Solution	Marks
10.1		
		(2)
10.2		
		(5)
10.3		
10.4		(3)
10.4		
10.5		(3)
10.5		
	. NA.	(2)
		[15]

	Solution	Marks
11.1	FIGURE B E C D	
11.1.1		
11.1.2		(3)
11.1.3		(3)

	Solution	Marks
11.2	11 12 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	
		(5)



112									Marks
11.3	7 cm	6,5 cm	x	5 cm	7,5 cm	6 cm	4 cm	3 cm	
								TOTAL:	(4) [18]



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Additional Space	Marks

Additional Space	Marks

24	TECHNICAL MATHEMATICS P2	(DEAF LEARNERS)	(EC/JUNE/JUNIE 2024)

Additional Space	Marks

	Additional Space	Marks