	UGANDA NATIONAL EXAMINATIONS BOARD UGANDA ADVANCED CERTIFICATE OF EDUCATION NOVEMBER - DECEMBER, 2022 Page 3 of 16	UACE
ot	Candidate's Name	3
is in	Signature	Do not write in this
<b>.</b>	Subject	margin
	MARKING GUIDE P425/2 APPLIED	
6	MATHEMATICS 1	
ب	$P(T) = \frac{2}{3}$ $P(T) = \frac{1}{3}$	
****	P(G) = 0.9 $P(G) = 0.1$ $P(G) = 0.6$ $P(G) = 0.4$	<u> </u>
	(a) $P(G) = 2 \times 0.9 + 1 \times 0.6 = 0.8 = 4$ (B) (M) (A) $\frac{3}{3}$	)
)-	(b) $PCT(G) = PCT(G) = \frac{2}{3} \times 0.9 = 0.75 = 3 \text{ (M)} (A)$	
	P(G) 0.8 4	
~	. 20,3	
2	Morizontal motion vertical motion	
	$U_{x} = 5ms^{-1}$ $u_{y} = oms^{-1}$ $u_{y} = oms^{-1}$ $u_{y} = oms^{-2}$ $u_{y} = oms^{-2}$	
-	$a_{x} = oms^{2}$ $a_{y} = 10ms^{2}$	
	5z = xm $5y = 80m$	*
	$t_{9x} = t_{5}$ $t_{4} = t_{5}$	
	a) = ut + \( \frac{1}{2} \), 80 = 0xt + \( \frac{1}{2} \) x10xt^2(B)	
	$5t = 80$ , $t^2 = 16$ : $t = 45$ . (M) (M)	T
- \$	b) -> ><= 5×4 + 2×0×(4)2 = 20m MIA)	
7		
2	let P = 2CY = 4×16.2 = 25.6126	
-	2 2.53	1.0
_	Pmax = 2max ymax = 4.5× 16.26 - 29.0012 (M) (B)	*
+	Lmin 2.523	, , , , , , , , , , , , , , , , , , ,
4	Pmin = Xmin ymin - 3.5 × 16.14=22.2665 (8)	
4	Zmax -2.537	
+	DP = 1 (Pmax - Pm, )=1 (29.0012-22.2665) (M)	
+	12	
+	AP = 3.36735 (A)	1
+		T-
	A STANSMATIONS TOLAGE.	

	UGANDA NATIONAL EXAMINATIONS BOA UGANDA ADVANCED CERTIFICATE OF EDUCA NOVEMBER - DECEMBER, 2022	
not rits this argin	Candidate's Name  Signature  Random No.  Paper code  Personal Nu	Do not write in this margin
	2:1=3	0.0000
	(a) $P(X_{+} \ge 5) = P(X_{+} = 5) + P(X_{+} = 6)$	-256 = 6.2512MJA
	(b) P(X <sub>T</sub> ≤1) = P(X <sub>T</sub> =1) + P(X <sub>T</sub> =0) = と(ま)(ま) <sup>5</sup> +との(ま) <sup>6</sup> (き) = 2	56 = 0.35/2(M)(A)
E	5)	129
	10H 4m 10H	
	A ION B	
	1 Pu = 105inco° 100 100	(a) H
<u> </u>	Since R=(8) H and Arcim = 2013/Nm. acouple.	Hm -: Hs
	(6) (a) 60 C 40	(B <sub>1</sub> )
	C - 60 = 40 = 50 0	
	e = 52	
1000	\$ 50 100	
17	100-90 90-75 MI	2
1	C - 16.6667 = 50 (TILLINGTON BOILD) (A)	

122 leand

		OGANDAA	NATIONAL DVANCED CE NOVEMBER - I	RTIFICATE	OF FD	UCATION	N Page	5 of 16	
o not vrite		Name		······································	• • • • • •	الإيمان التي التي التي التي التي التي التي التي	24 p.377.	·	A
this argin	Signature	se sure	(3)	***************************************	Randor	m No.	7057	F	Do W
	Subject		Paper code			al Number		<del>  </del>	ma
		****	THE SECTION AND A SECTION						
4	$\mathbf{x}$	Fox)	P(x=x)	DC PCX:	- ~ )~	200		+	
	3	0.0	0.01	0.0		22 PC		+	
,	4	0-23	0.22	d		0-0		-	-
8 %	5	0.64	0.41	0.5		3-5.		1	1 1 1 1 2 2 3
	6	0.85	0.21	2.0		10.25		• • • •	
- )· ·		1	0.15	1.2	0	7.56		:	- de
					5 M)	7.34			
	Vaco	N		E(X)=50	27 (AV)	3(x²)=28	376		
	Yare	VEED	3) -(Ecx))	= 28-77	1(5	$(27)^2 = C$	×997	(B)	•,
(8)			<b>—</b>	P	*	17 5 - 5 - 136-1			i isoma "
6)			4	1	FE	P= 1912	X103		/#0
			360H 4	A	(B)	= 1,9	20 H		4.0
-	*	294	H	1)-		2.0			
(-1		10=	1.9 p	9009 H					• • •
-		11910	1,920-36			oa Mi	(By)	-	
11 11		34		= 1,266	a				•
	4 _ 4			= 750 M	5-2 -	1.4067	MSTA	$\rightarrow$	11.9
	/			150		1 7 7		-	-
9)	(a) no	1	dx = 1"	•				-4	
3		(b-a)	4				<del></del>		- 36
		x 5	(1)						71.1
		_a	= 1 (M)	5-a	=1	(B) 20 -	-4a=b	-a	***
	3	a		b-a	4		ř.	<u> </u>	
	3a.	fb = 20	, <del>(*)</del>	<b>x</b> (a)					
			$d \times = 3$	5 1					
	Ja	(b-a)	4					4	
	×	9	3 6 9	-a - 2	(B)				
	b - d	a a	4 19841104	ma 4	1 36	-49	36-3	a	9
	a+:	3b_= 36	(42)		0 10				2
				3	~ +7.	6=108,	E)	) 	able a

Candidate's Name  Signature  Signature  Subject  Paper Code  Personal Number  Personal Num		UGANDA NATIONAL EXAMINATIONS BOARD UGANDA ADVANCED CERTIFICATE OF EDUCATION NOVEMBER - DECEMBER, 2022 Page 6 of 16	UACE
Signature Subject  Paper code  Personal Number  Random No.  Personal Number $8 = 88 \text{ (M)} b = 11 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $6 = 36 - 3 \times 11 = 3 \text{ (A)}$ $7 = 7 - 4 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = 1 = 3$ $7 = 7 = $		Candidate's Name	Do not
Subject	n this	Signature	in ti
From (-) $a = 36 - 3 \times 11 = 3 \text{ M}$ $fox) = \begin{cases} \frac{1}{8} ; 3 \times \times 11 \\ 0 ; 0 + \text{nerwise} \end{cases}$ (b) $P(4 \times \times 7) = \begin{cases} 7 \\ 1 \\ 4 \end{cases} = \begin{cases} 7 \\ 1 \\ 4 \end{cases} = \begin{cases} 7 \\ 7 \\ 4 \end{cases} = \begin{cases} 7 \\ 7 \\ 7 \\ 7 \end{cases} = \begin{cases} 7 \\ 7 \\ 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 $		Subject	
From (-) $a = 36 - 3 \times 11 = 3 \text{ M}$ $fox) = \begin{cases} \frac{1}{8} ; 3 \times \times 11 \\ 0 ; 0 + \text{nerwise} \end{cases}$ (b) $P(4 \times \times 7) = \begin{cases} 7 \\ 1 \\ 4 \end{cases} = \begin{cases} 7 \\ 1 \\ 4 \end{cases} = \begin{cases} 7 \\ 7 \\ 4 \end{cases} = \begin{cases} 7 \\ 7 \\ 7 \\ 7 \end{cases} = \begin{cases} 7 \\ 7 \\ 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 $			
From (-) $a = 36 - 3 \times 11 = 3 \text{ M}$ $f(x) = \begin{cases} \frac{1}{8} ; 3 \times \times 11 \\ 0 ; 0 + \text{nerwise} \end{cases}$ (b) $P(4 \times \times 7) = \begin{cases} 7 \\ 1 \\ 4 \end{cases} = \begin{cases} 2 \\ 8 \end{cases} = \begin{cases} 7 \\ 7 \\ 4 \end{cases} = \begin{cases} 7 \\ 8 \end{cases} = \begin{cases} 7 \\ 8 \end{cases} = \begin{cases} 7 \\ 7 \\ 8 \end{cases} = \begin{cases} 7 \\ 8 \end{cases} = \begin{cases} 7 \\ 7 \\ 7 \end{cases} = \begin{cases} 7 \\ 7 \\ 8 \end{cases} = \begin{cases} 7 \\ 7 \\ 7 \end{cases} = \begin{cases} 7 \\ 7 \\ 7 \end{cases} = \begin{cases} 7 \\ 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \\ 7 \end{cases} = 7 \end{cases} = \begin{cases} 7 \end{cases} = 7 \end{cases} =$		86= 88 (M) 6=11 (A)	
$f(x) = \frac{1}{8}; 3 < x < 11$ o; otherwise $(b) P(A < x < 7) = 17   Ax =   x   7 - 7 - 4 = 3$ $A B B B + (1)B. AB$ $(c) E(x) = 1 (3+11) = 7   (6)$ $V = 12   (11-3)^2 = 64 = 16 = 5.3332   (M)   (A)$ $12   12   3$ $V = 20 \cos 0^{\circ} - 20   \cos 0^{\circ}   (D)   (D)   (D)$ $V = 20 \cos 0^{\circ} - 20   \cos 0^{\circ}   (D)   (D)   (D)$ $V = 20 \cos 0^{\circ} - 20   \cos 0^{\circ}   (D)   (D)   (D)$ $V = 15 \cos 30^{\circ} - 1.5   (D)   (D)   (D)   (D)$ $V = 15 \cos 30^{\circ} - 1.5   (D)   (D)   (D)   (D)   (D)$ $V = 15 \cos 30^{\circ} - 1.5   (D)   (D)   (D)   (D)   (D)   (D)$ $V = 15 \cos 30^{\circ} - 1.5   (D)   (D)$		Ċ	<del></del> -
(b) $P(4 < x < 7) = \int_{1}^{7} \frac{1}{4x} = \frac{1}{2x} = \frac{7}{2} - \frac{7}{2} + \frac{3}{3}$ (c) $E(x) = \frac{1}{2} (3+11) = 7$ (d) $2 = \frac{1}{2} (3+11) = 7$ (e) $2 = \frac{1}{2} (3+11) = 7$ (f) $2 = \frac{1}{2} (3+11) = 7$ (g) $2 = \frac$			
(b) $P(4 < x < 7) = \int_{A}^{7} \frac{1}{8} dx = \frac{1}{2} x = \frac{7}{2} - \frac{7}{2} + \frac{3}{3}$ (c) $E(x) = \frac{1}{2} (3+11) = 7$ (d) $V = (x < 1) = \frac{1}{2} (11-3)^{2} = \frac{1}{2} + \frac{1}{2} (12-3)^{2} = \frac{1}{2} $		) 4	<u> </u>
$(1) = (x) = 1 (3+11) = 7 (61)$ $(2) = (11-3)^{2} = (4 - 1) = 5.3333 (M) (A)$ $(3) = (11-3)^{2} = (4 - 1) = 5.3333 (M) (A)$ $(4) = (12-3)^{2} = (4 - 1) = 5.3333 (M) (A)$ $(5) = (12-3)^{2} = (4 - 1) = 5.3333 (M) (A)$ $(7) = (12-3)^{2} = (4 - 1) = 5.3333 (M) (A)$ $(8) = (12-3)^{2} = (12-3)^{2} = (20) \text{ cm/m}$ $(9) = (15-2)^{2} = (20) \text{ cm/m}$ $(15-2)^{2} = (20)$		07	
(c) $E(x) = 1 (3+11) = 7 (B)$ $V = V(x) = 1 (11-3)^2 = E4 - 1E - 5-3333 (M) (A)$ $V = 12 (11-3)^2 = E4 - 1E - 5-3333 (M) (A)$ $V = 12 (11-3)^2 = E4 - 1E - 5-3333 (M) (A)$ $V = 20 EM + 7 (20 COSO^0) = (20) EM + 7 (20 Sino^0) = (7.5) $	)(		
V = V = V = V = V = V = V = V = V = V =		T (M) D' (A)	<u>-</u>
(D) (a) $A = 20 \text{ km} \text{ km}^{-1}$ $A = 20 \text{ km}$		$C) = CX) = \frac{1}{2} (3+11) = \frac{7}{2} (B_1)$	
(D) (a) $A = 20 \text{ km} \text{ km}^{-1}$ $A = 20 \text{ km}$			<del></del>
(D) (a) $V = 20 \cos^{\circ} = 20 \cos^{\circ} = 20 \cos^{\circ}$ $V = 20 \cos^{\circ} = 20 \cos^{\circ} = 20 \cos^{\circ}$ $V = 20 \cos^{\circ} = 20 \cos^{\circ}$		$V = V(x) = 1 (11-3)^2 = 64 = 16 = 5-3333 (M) (A)$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		12 12 3	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
N A S E $V = (15eos30) - (7.5B)$ which $V = (15sin30) - (7.5B$	10	$(a)$ $y =  20 \cos 0  -  20 $ $ anh $	1
30km $B = 15kmh$ $A = 15kmh$	l.	205100 (0 ) (B)	
30km $B = 15kmh$ $A = 15kmh$		N A E (15 cos30) - (7.53)	<del>7</del> 1
BY SIGNATURE OF THE SECTION OF THE	-	1551m30 7.5 (B)	
BY SIGNATURE OF THE SECTION OF THE	)	30KM EITHELAR - 30C052701	
BY SIGNATURE OF THE SECTION OF THE	i Vid	8=15KMH( B"Act=0) 3:05in2700	
B  OR $\overrightarrow{BA} = \int_{A}^{B} \frac{30 \text{ EDS } 90^{\circ}}{30 \text{ S,n} 90^{\circ}}$ $\overrightarrow{BA} = \int_{A}^{B} \frac{1}{B(t=0)} \frac{30 \text{ S,n} 90^{\circ}}{30}$ A  B  (Y  A  B  (T  A	d l		-
B  OR $\overrightarrow{BH} = \int_{A}^{C} = \left(30 \text{ $EOS qoe}\right)$ $\overrightarrow{BA} = \int_{A}^{C} = \left(30 \text{ $EOS qoe}\right)$ $\overrightarrow{BA} = \left(30 \text{ $EOS qoe}\right)$ $\overrightarrow{AB} = \left(30 \text{ $EOS qoe}\right)$		W 230 = B'A(E=0) (-30)	
$BA = \int_{B(t=0)} \left( \frac{30  \text{S,n}  90^{\circ}}{30} \right)$ $A = \int_{A} \left( \frac{1}{30} \right) \left($			
$BA = \int_{B(t=0)} = \begin{pmatrix} 0 \\ 30 \end{pmatrix}_{CM}$ $A = B(t=0) + (Y_A - Y_B) + (Y_A - $			
$A = B(t=t) + (Y_A - Y_B)t$ $A = B(t=t) + B(t=0)$		DA - ( - (0 )	
O I GARAGA - CO INVIDEN	Six As		
O I GARAGA TO SOLITION OF THE STATE OF THE S			
O I GARAGA - CO INVIDEN	English Control	A B (tot) A B (too)	
A THE PART OF THE		7.55 (N) (B) 7:0096t	

30 -7.5t

	P. C.	ANDA NATIONAL EXAI NDA ADVANCED CERTIF NOVEMBER - DECE	ICATE OF EDUCATIO		UACE
ot 3	Candidate's Name				Do not write
is In	Signature	Paper code	Random No.		in this margin
	Subject	Paper code	Personal Number		
1	·A CB	(t=t) • XXB = 0	-	× 1	
-	7	,0096t \ /7,009	(A) = 0 (A)		1
	30	5-7.5E / (-7.5		n l	
-		・384年 -225=			
-	t= 2.135h/~	2.14h/ 22hrs 0-14×60	mm, 1. t = 14:08	hrs A	
$\mathcal{L}$	(b) r A B (t=2.1	7.0096X2.14		cm	-
blen		30-7-542-14	13.95	3D	- 1
LOID	ABCE=2	14hr) = [(15,0005	)2 + C13-95)2 = 20	0.4x Km(A)	
	10 - 6	5-1-5-0			
$\coprod$	(a) $h = \underline{R}$	6 = 5 (8)			4
	×	fox)= x nx	foc)=xlnx		
	1	0.000			Н
	16		1-1112	1	ar I a
-	3	4	2,6156		1 -
	12/3		4.3847		
- )_	3		6-3544		
-	य	,	8.4848		
	6	10-7506		-	
	SUM (B1)	10-7506 (B)	22.95021(8)		
+	5choca	× ~ 5 (10.7506	+ 2×22-9504)~	23.6036M)	1
476	Jı	12	y		1 V
-100	06	≈ 23.60% (3d.		4:	
	(b) E.V= 16		三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二		
	J1.		=× , Y=至	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-	= = = =	10x-12.24x=	<del>2</del> <del>4</del>		and the same
	= =	2/nx ->2 6	(18/n6-9)-(+1	12-4)MI)	C
Mar Production of	2	4 1		7.00	>-
	= 23	5.5017 ≈ 23.50	34.p-57.(AT)		

## UGANDA NATIONAL EXAMINATIONS BOARD UGANDA ADVANCED CERTIFICATE OF EDUCATION NOVEMBER - DECEMBER, 2022

	#	NOVEMBER - DECEMBER, 2022							date
o not	Candida	ate's Name	)	***************************************	***************************************		•••••	eto secui ••	1,110
erite n this sargin						Random I	Vo I I		Don ECT
10 WI C 1	Subject	••••••		Paper code .		Personal	Number		In the margin
uni L	. =	34 		8		1 Graditari	vamber		
	A.E	=	€·V - A	v = 2	3.502-	23.60	A = 0	.1036	
	₽.€	= 4	E XIO	0 - 00	102 161	20 /	2-11-20	(6)	1
<b>-</b> -	IC .	E	·V	0 = 0.	502	00 = 0	738		-
	I-Incr.	ease	numb	er of		C Sub	_lolos	110	
	DC .	ordin	ates.		24173	(B)	-117-21	vaus	
)	8			I.			-		
	(12)(6)	Rx	Ry	42		7			
¥/		4	3.5	0.25		<del></del>			<del></del>
		9.5	8	2.25					
		7	3.5	12.25			× 1		***************************************
1.4		6	7	1			1		
		2.5	5	6.25				-	
	1 8	9.5	9	0.25		2			
e: 1 e	-	1	t	Ø					1
_		2.5	2	0.25	ı				5 5 W W 5 5 5 W
)		8	110	4	d I				
		5	6	1					
4	= = = =	BSUN	1 @ Ed2	= 27.5	(B)			-	
0	P =	1-6	$\Sigma d^2$	$\frac{2}{2}$ 27.5	6×27.5	=0.8	333 AI	)	
45.	٦,	1 1	(n2-1)		10×99(	M)			
	P = 0.	8333	> 5	=0.65,	i. Signi	ificant	at 5%	( B)	
					J			- 5	
(1	3)(0)		/3	t)					
	West, Ca	<b>)</b>	L = 1-4	t ms-1	, t			- 1	× 1
31 K			( t	2	5.54		di pang		9.
Ar July				Sur Sur		13t2			4
	L,	tat) =	Ydt	= (1)	dt=	-2t2	+ 2 M	y L	
	(mm. ib) agg/ks	his and the	J	Constitution of the second		12/		Total and Total	* **

		UACE
· · · · · · · · · · · · · · · · · · ·		Random No.
atureect Name	(F)	Personal Number
ect Name	Paper code	Personal Number
mark manage	BOREST ABOUNDED	gento test some (x)
		<u></u>
ematics		
17		
	(3)	
70 -		
7		
<u> </u>		
50-		
50 40 70		
70 70	30 90 60	
	Migence Feat Score to	
	······································	5
· · · · · · · · · · · · · · · · · · ·		

UGANDA NATIONAL EXAMINATIONS BOARD (To be fastened together with other answers to paper) **UACE** indidate's Name ..... Random No. Personal Number bject Name .....

Cos 0.6000

		10 of 16
Do not write	Candidate's Name	·····
margin	Signature	7/
		_
	x 0.5885_ Sino.5885-e-0.5885	-m
·	$\frac{x_{2}-0.5885}{\cos 0.5885+e^{-0.5885}}-0.5885$	
-	$ x_1-x_2 =0$	1
-	(oot x 0.589 (31.pis) (A)	
(15	) (a) y=f001	1
-	P=0.45	
	9=0.05	
-	-Z <sub>0.49</sub> =-2-326 B) Z <sub>0.45</sub> 1.645 B) S	
	-Zo.49=-2-326 (B) Zo.45 1.645 (B) 8	
	1.645 = 210 - # (MI)	
	8	
	1,6458 + M = 210	
- )	-2.326 = 185 - 19 (M)	
	8	
-	N-2.3268 = 185 €) EAL N = 199.6437	÷
	H+16458 = 210 G) 8= 6-2956	
	(-6) 3.9718 = 25 (m)	
	8 = 6.2956 D	
	from (+) fl = 210-1.645 × 6.2956 = 199.6437 (A)	)
- 0	b) P(182< X<195)	
i — —	= P (182-199.6437 < Z < 195-199.6437)	10
	6.2956 6.2956 My	
1,49746	= P (-2.8025 < Z ( = 7376) = P(Z < -0.7376) -	
3 2 6 962	P(Z<-2.8025) = 18 304-0.0025=0-2219(B)(M)	(A)
122184 0	02 Q(-2.8025)-Q(-0.7 96) 100 100 100 100 100 100 100 100 100 10	*

UGANDA NATIONAL EXAMINATORIAL	FOF FOLICATION	Page 11 of 16	UACE
Signature	Random No.		Do not write in this
Subject Paper code/	Random No.		margin
Tapol sodo	Personal Number		
(a) N=	· · · · · · · · · · · · · · · · · · ·	- 1	
(Ca) D			······································
	T.	-	
	1		
	9Te0560°=	TC: 12.0	.5-
TS1030°= 0.5T	114360 =	131176 22	-
+ 1	60	\$7 \$1	
A TCOS30° = 3T G 30°  Rx 4 1.5	C 2.5	B	
~~~			(B)
THE STATE OF THE S		<del></del>	
M) HON W	<u> </u>	6047	
A 5.5 X 0.5T = 4 × 40 + 8		- <del> </del>	
T = 232.72731		l l	<b>_</b>
(b) 1 0.51 = Ry +40+60	(B)		
Ry = 0.5 x 232.7273-	100 = 16.3636	,N	
$R_{y} = 0.5 \times 232.7273 - \frac{1}{2} \times \frac{1}{2} \times$	1213 = 201:54	18 H(B)	00
121= 1(Px)2+(Py)2= 1(201.547)	8)2+(16-3636)2=	202.211H	MU (A)
8 = +an (16.3636) = 4.64 201.5478) Blor	· below. AB OR	E 4.64°S	<b>6</b>
201.5478/ BUOR	585.36°E	1	-
		_	
		,	
	1		
	The state of the s		11
SANDA NATIONAL		if e 1 2	
The state of the s			
TXAMINATION'S NO.24D		the state of the state of the	MANAGEMENT SERVICES