MA	THEMATICS 2000
Time: 3	0 minutes 10th Class Karachi Board Max. Marks: 20
SEC	TION 'AND THE CHOICE QUESTION
1. 6	the correct answer for each from
the	en options: (20)
A CANCELLO CONTRACTOR OF THE C	the relation $R = \{(2, -3), (2, 6), (2, 3)\}$ the range of R is: (6) (b) $\{2\}$ (c) $\{2, 3\}$ (d) None of them.
(ii)	If $A = \begin{bmatrix} 5 & 6 \\ 3 & -1 \end{bmatrix}$, then $A^{t} =$
(a)	$\begin{bmatrix} 3 & -1 \\ 5 & 6 \end{bmatrix} \text{ (b)} \sqrt{\begin{bmatrix} 5 & 3 \\ 6 & -1 \end{bmatrix}} \text{ (c)} \begin{bmatrix} -1 & 3 \\ 6 & 5 \end{bmatrix} \text{ (d)} \begin{bmatrix} 5 & 6 \\ 3 & -1 \end{bmatrix}$
(iii)	The degree of given polynomial ³ √(a ² -b) ³ is:
(a)	1 (b) 3 (c) 2 (d) 5
(iv) (a)	The logarithmic form of $2^5 = 32$ is: $\log_{32} 5 = 2$ (b) $\log_2 32 = 5$ (c) $\log_5 32 = 2$ (d) None of these
(v)	The characteristics of 6.67 x 10 ⁻¹¹ is:
(a)	3 (b) -3 (c) 5 (d) None of them Diameter is twice of the:
(vi) (a)	Radius (b) perpendicular (c) chord (d) tangent
(vii)	If 5:8::5:x, then value of x is:
(a)	40 (b) 25 (c) 5 (d) 8
(viii) (a)	The solution set of y 3
(ix)	If x = (2, \$, 5, 7, 14), then all the numbers in x are:
W.	Odd numbers (b) Natural numbers (d) Even numbers
(x)	$\sqrt{1-\operatorname{Sin}^2\theta} = \dots$
(a)	$\frac{\cos \theta}{\Delta}$ (b) $\tan \theta$ (c) $\sec \theta$ (d) $\sin \theta$
(xi)	A circle which touches all the sides of a triangle is called: (a) Inscribed circle (b) Escribed circle
(c)	circum circle (d) None of them
(xii)	Cot x = (a) $\sqrt{\frac{\cos x}{\sin x}}$ (b) $\frac{\sin x}{\cos x}$ (c) $\frac{1}{\cos x}$ (d) $\frac{1}{\sec x}$
(xiii)	If a: b:: b: c then b is called:
(a) (c)	1 st proportion (b) Mean proportion 4 th proportion (d) None of them
(xiv)	The value appears most often in a set of data is called:
(a)	Arithmetic mean (b) Median (c) Mode (d) Average
(xv)	The multiplicative inverse of - ½ is:
(a) (xvi)	2 (b) -2 (c) 6 (d) none of them Tan ² $\theta + 1 =$
(a)	$\sin^2\theta$ (b) $\sec^2\theta$ (c) $\cot^2\theta$ (d) $-\tan^2\theta$
The second second	In a series 0, 1, 4, 6, 7, 9, 12 the mediands:
(a)	7 (b) 6.5 (c) 6 (d) 6 (U)
(a)	Sin10° (b) cosec10° (c) cot10° (d) None of them
(xix)	MAN GULL
(A)	8 (b) 1/8 (c) 6 (d) 1/6
(xx) (a)	3° =
(8)	