1)	Which	of the following condition is false for Row-echelon form?
	a)	All non-zero rows are above zero rows.
	b)	All non-zero rows are below zero rows.
	c)	The leading coefficient of non-zero rows must be to the right of leading coefficient of
		row above it.
	d)	All elements in a column below leading coefficient is zero
2)	The do	t product of (2,2,4) and (1,-3,4) is
	a)	24
	b)	10
	c)	16
	•	12
3)		of a vector (1,-2,3,4) is
	•	$\sqrt{30}$
	b)	
	c)	30
	•	$\sqrt{6}$
4)		n of the following is not property for inner product space?
	•	$\langle x, x \rangle \geq 0$
		$\langle x, x \rangle = 0$ if and only if $x = 0$
	-	<x, y=""> = <y, x=""></y,></x,>
		$\langle x+y, z \rangle = \langle x, y \rangle + \langle x, z \rangle$
5)		ing statement is true for norm on a vector space.
	-	$\parallel \lambda x \parallel =  \lambda  \parallel x \parallel$
		$\parallel \lambda x \parallel \leq  \lambda  \parallel x \parallel$
		$\parallel \lambda x \parallel \geq  \lambda  \parallel x \parallel$
-1		$\parallel \lambda x \parallel >  \lambda  \parallel x \parallel$
6)	The c	distance between $(1, 3)$ and $(9,1)$ is
	a)	$\sqrt{64}$
	b)	64
		√ <u>68</u>
_,	,	$\sqrt{6}$
7)		angle between the vectors $(1, 1)$ and $(-3, 3)$ is
	,	30 degree
	,	45 degree
	c)	$\epsilon$
_,		90 degree
8)		n of the following pair of vectors is orthogonal?
		(1, 2, 3), (1, 2, 3)
		(1, 2, 3), (0, 2, 3)
		(1, 0, 1), (0, 2, 0)
۵۱	-	(1, 1, 0), (0, 2, 0)
9)		$\lambda I =0$ is called
		Linear equation  Characteristic equation
		Characteristic equation  Characteristic polynomial
	c) d)	Characteristic polynomial  Quadratic equation
	uj	Quadratic Equation

10)	In a	complex number $z = x + iy$ , if $x = 0$ then the number is called
	a)	Purely irrational
	b)	Purely integer
	c)	Purely imaginary
	d)	Purely real
11)	Мо	dulus (absolute value) of $z = 5 + 4i$ is
	a)	41
	b)	-41
	c)	$\sqrt{41}$
	d)	$-\sqrt{41}$
12)	Any	complex number multiply by i, rotate the complex number by
	a)	90 degree
	b)	180 degree
	c)	270 degree
	d)	360 degree
40\		05(0) (: 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
13)		6F(2) field, the value of $0 * 1 + 1 * 1 + 1$ is
	•	0
	p)	1
	q) c)	2 Not defined
1/1	•	e vectors which lies along the same line or parallel lines are known as
14)		Like vectors
	•	
		Position vectors
	-	Collinear vectors
	<b>-</b> -,	Equal vectors Position vectors Collinear vectors e dot product of (1,2,4) and (4, 2,1) is
15)	The	e dot product of (1,2,4) and (4, 2,1) is
•	a)	19
	b)	12
	c)	$\sqrt{12}$
	d)	$\sqrt{19}$
16)	A li	near equation in the form AX=B, where B $\neq 0$ is called as
	a)	Linear system
	b)	Homogenous system
	c)	Non-homogenous system
	d)	Saturated system
17)	hov	w many solutions does the equation 2x-5y=3 have?
	a)	No solution
	b)	A single zero solution
	c)	Infinitely many solutions
		Unique non-zero solution
18)		6,5,3) = $a(1,0,0) + b(0,1,0) + c(0,0,1)$ then
		a = 5, b = 3, c = 6
	- 1	a = 6, b = 5, c = 3
	,	a = 3, b = 5, c = 6
	d)	a = 5, b = 6, c = 3

19) If A and	B are two matrices of same order and $A(B+C) = (AB)+(AC)$ , this law is known
as	
a) D	istributive law
b) C	ommutative law
c) A	ssociative law
d) C	rammer's law
20) Set of all	linear combination of vectors is called
	inear span
	inearly dependent
	inearly independent
d) S	ubspace
21) Which of	the following set is linearly independent?
a) S	$= \{ (1,0), (0,1) \}$
b) S	$= \{ (1,1), (2,2) \}$
c) S	$= \{ (1,2), (2,4) \}$
d) S	$= \{ (3,6), (1,2) \}$
22) A non-en	npty subset W of V is said to be subspace if and only if
a) <i>ax</i>	The equation of the standard
b) <i>ax</i>	$-by \in W \ \forall x, y \in W, a, b \in \mathbb{R}$
c) ax	$+by \notin W \ \forall x, y \in W, a, b \in \mathbb{R}$
d) <i>ax</i>	$-by \notin W \ \forall x, y \in W, a, b \in \mathbb{R}$
23) The weig	ht of the word 1001110 is
a) 2	
b) 3	
c) 4	
d) 5	
24) If $x = 101$	1, $y = 1011$ then $x \oplus y =$
a) 10	011
b) 10	000
c) 00	000
d) 00	001
	the element of a matrix have zero value is called matrix.
	parse
b) N	
	lpotent
d) In	verse