Padasalai's Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padasalai's NEWS - Group
https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA

- Padasalai's Channel - Group
https://t.me/padasalaichannel

- Lesson Plan - Group
https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw

- 12th Standard - Group
https://t.me/Padasalai_12th

- 11th Standard - Group
https://t.me/Padasalai_11th

- 10th Standard - Group
https://t.me/Padasalai_10th

- 9th Standard - Group
https://t.me/Padasalai_9th

- 6th to 8th Standard - Group
https://t.me/Padasalai_6to8

- 1st to 5th Standard - Group
https://t.me/Padasalai_1to5

- TET - Group
https://t.me/Padasalai_TET

- PGTRB - Group
https://t.me/Padasalai_PGTRB

- TNPSC - Group
https://t.me/Padasalai_TNPSC

ARTHI TUITION CENTER KATTUPUTHUR - 621207

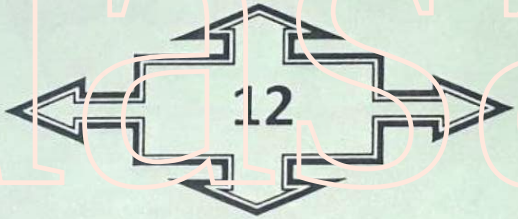
HIGHER SECONDARY – SECOND YEAR

CLASSIFICATION OF TEXT BOOK PROBLEMS

&

CLASSIFICATION OF CREATIVE QUESTION

DEPARTMENT OF MATHEMATICS



: PREPARED BY :

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ARTHI TUITION CENTER KATTUPUTHUR – 621207

BLUE PRINT - 1

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21	UNIT - 1	31	UNIT - 1	41	UNIT - 1	UNIT - 2
22	UNIT - 2	32	UNIT - 2	42	UNIT - 3	UNIT - 4
23	UNIT - 3	33	UNIT - 4	43	UNIT - 5 UNIT - 6 UNIT - 7 UNIT - 9	ANY 6 QUS
24	UNIT - 5	34	UNIT - 5	44		
25	UNIT - 6	35	UNIT - 6	45		
26	UNIT - 7	36	UNIT - 7	46	UNIT - 8	UNIT - 12
27	UNIT - 8	37	UNIT - 8	47	UNIT - 10	UNIT - 11
28	UNIT - 9	38	UNIT - 9			
29	UNIT - 10	39	UNIT - 10			
30	UNIT - 11	40	UNIT - 12			

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21	UNIT - 1	31	UNIT - 1	41	UNIT - 1	UNIT - 2
22	UNIT - 2	32	UNIT - 2	42	UNIT - 3	UNIT - 4
23	UNIT - 4	33	UNIT - 3	43	UNIT - 5	UNIT - 6
24	UNIT - 5	34	UNIT - 5	44	UNIT - 7	UNIT - 8
25	UNIT - 6	35	UNIT - 6	45	UNIT - 9	UNIT - 10
26	UNIT - 7	36	UNIT - 7	46	UNIT - 11	UNIT - 12
27	UNIT - 8	37	UNIT - 8	47	UNIT – 5,6,7,9	
28	UNIT - 9	38	UNIT - 9			
29	UNIT - 11	39	UNIT - 10			
30	UNIT - 12	40	UNIT - 12			

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CLASSIFICATION
VOLUME - 1

1.APPLICATION OF MATRICES AND DETERMINANTS

2mark		3mark		5mark	
EXAMPLE	EXERCISE	EXAMPLE	EXERCISE	EXAMPLE	EXERCISE
1.2, 1.4, 1.5, 1.6, 1.7, 1.11	1 (i), 2 (i)	1.3, 1.8	1 (ii, iii) 2 (ii, iii), 6, 8, 9, 10, 11, 15	1.1, 1.9, 1.10, 1.12	3, 4, 5, 7, 12, 13, 14
1.13, 1.16, 1.17	1 (i, ii, iii, iv, v)	1.14, 1.15, 1.18, 1.20	2 (i, ii, iii), 3 (i)	1.19, 1.21	3 (ii, iii)
-	-	1.22	1(i, ii),3	1.23,1.24	1 (iii, iv), 2. 4, 5
-	-	-	1(i, ii), 2, 3, 4	1.25, 1.26	1 (iii, iv), 5
-	-	-	-	1.27, 1.28	1 (i, ii), 2, 3, 4
-	-	-	-	1.29,1.30,1.31, 1.32,1.33,1.34	1(i, ii, iii, iv),2,3
-	-	1.35	1(i, ii)	1.36,1.37,1.38, 1.39,1.40	2,3
:THEOREM: THEOREM - 1.2 THEOREM - 1.4 THEOREM - 1.5 THEOREM - 1.6 THEOREM - 1.7 THEOREM - 1.8 THEOREM - 1.9 THEOREM - 1.10	:DEFINATION: *adjoint mat *inverce *orthogonal *equivalent row echelon mat *rank of a matrix *elementary mat *consistent and inconsistent	:THEOREM: THEOREM - 1.3		:THEOREM: THEOREM - 1.1	
TOTAL	31	TOTAL	33	TOTAL	52

2.COMPLEX NUMBERS

2mark		3mark		5mark	
EXAMPLE	EXERCISE	EXAMPLE	EXERCISE	EXAMPLE	EXERCISE
2.1(i, ii, iii, iv, v)	1, 2, 3, 4, 5, 6	-	-	-	-
-	1(i, ii, iii, iv)	2.2	1(v,vi),2(i,ii),3	-	-
-	1(i, ii)	-	2(i,ii),3	-	-
2.3,2.4,2.5,2.6,2.7	1(i, ii, iii) 2(i, ii, iii)	2.5	3, 4, 5	2.8	6, 7
2.11,2.17, 2.12	1(i, ii, iii, iv) 8,10(i, ii, iii)	2.9, 2.10(i, ii iii), 2.16	2, 3, 6, 9	2.13, 2.14, 2.15	4, 5, 7
2.19,2.20	3(i, ii, iii, iv) 4(i, ii, iii, iv) 5(i, ii)	2.21(i, ii)	1	2.18	2
-	-	2.22, 2.25	4	2.23, 2.24, 2.26, 2.27	1(i,ii,iii,iv),2,3 ,4,5,6
-	1	2.28, 2.29, 2.30	6, 7, 8	2.31, 2.32, 2.33, 2.34, 2.35, 2.36	2, 3, 4, 5, 9, 10
:DEFINATION: *Rectangular form of a complex number *Polar form of a unit circle :Algebraic operation: *Scalar multiplication *Addition of complex number	:Algebraic operation: *Multiplication of complex number *Conjugate of a complex number *Circle *polar form of the complex number *De moivre's theorem	-	-	:THEOREM: *inverse property under multiplivcation *state and prove triangle inequality *find the sixth roots of unity *properties of complex Number *Find the cube roots of unity *Find the fourth roots of unity *Find the sixth roots of unity	

TOTAL	60	TOTAL	34	TOTAL	43

3.THEORY OF EQUATION

2mark		3mark		5mark	
EXAMPLE	EXERCISE	EXAMPLE	EXERCISE	EXAMPLE	EXERCISE
3.1, 3.2, 3.3	2(i, ii, iii), 11, 12	3.6, 3.7	1, 5, 8, 9, 10	3.4, 3.5	3(i, ii, iii), 4, 6, 7,
3.8, 3.9, 3.10, 3.11, 3.12, 3.13	2, 3	3.14	1, 4	-	5
-	7	3.16, 3.17, 3.18, 3.19, 3.20	1, 3, 6(i,ii)	3.15, 3.21, 3.22	2, 4, 5
-	-	-		3.23, 3.24	1(i,ii), 2
-	-	3.25, 3.27, 3.29	1(i, ii), 2(i, ii)	3.26, 3.28, 3.29	3, 4, 5(i, ii), 6, 7
3.30, 3.31(i, ii)	1, 3, 4, 5	-	-	-	2
:DEFINATION: *The fundamental Theorem of algebra *Definition 3.1 *Definition 3.2	:THEOREM: *Rational root theorem *Descartes rule	:THEOREM: *vieta's formula for polynomial equation of degree 3 *Theorem 3.6	-	:THEOREM: *Theorem 3.2 *Theorem 3.3	
TOTAL	29	TOTAL	31	TOTAL	34

4.INVERSE TRIGONOMETRIC FUNCTION

2mark		3mark		5mark	
EXAMPLE	EXERCISE	EXAMPLE	EXERCISE	EXAMPLE	EXERCISE
4.1, 4.2, 4.3 (i, ii, iii) 4.4	1 (i, ii), 2 (i, ii, iii), 4 (i,ii), 5	-	3, 6 (i, ii), 7	-	-
4.5	1 (i, ii), 2, 3, 4,	4.6 (i, ii, iii), 4.7	6, 7	-	8 (i, ii)

	5 (i,ii,iii)				
4.8, 4.9 (i, ii)	2 (i, ii), 3 (i, ii, iii)	4.10, 4.11	1 (i, ii)	-	4 (i, ii, iii)
4.12 (i, ii), 4.13, 4.14, 4.15	1 (i, ii, iii)	-	2 (i, ii, iii)	-	-
4.16, 4.17 (i, ii, iii, iv), 4.18 (i, ii), 4.24, 4.25	1 (i, ii, iii), 3(i, ii), 4 (i)	4.18 (iii), 4.19, 4.20, 4.21 (i, ii), 4.26, 4.27	2 (i, ii, iii), 6, 7, 8, 9 (i)	4.22, 4.23, 4.28, 4.29	3 (iii), 4 (ii), 5, 9 (ii, iii, iv), 10
:DEFINITION: *Definition 4.3 *Definition 4.4 *Definition 4.5 *Definition4.6 *Definition 4.7 *Definition 4.8	-	:DEFINITION: *Define: periodic function with examples *Define: odd and even function	-	Sketch the graph of $y = \sin x$ in $[0, 2\pi]$ Sketch the graph of $y = \sin^{-1} x$ in $y \in \left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$ Sketch the graph of $y = \cos x$ in $[0, 2\pi]$ Sketch the graph of $y = \cos^{-1} x$ in $y \in [0, \pi]$ Sketch the graph of $y = \tan x$ in $y \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$ Sketch the graph of $y = \tan^{-1} x$ in $y \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$ Sketch the graph of $y = \operatorname{cosec} x$ in $(0, 2\pi) \setminus \{\pi\}$ Sketch the graph of $y = \operatorname{cosec}^{-1} x$ in $y \in \left[-\frac{\pi}{2}, \frac{\pi}{2}\right] \setminus \{0\}$ Sketch the graph of $y = \sec x$ in $[0, \pi] \setminus \left\{\frac{\pi}{2}\right\}$ Sketch the graph of $y = \sec^{-1} x$ in $y \in [0, \pi] \setminus \{0\}$ Sketch the graph of $y = \cot x$ in $(0, \pi)$ Sketch the graph of $y = \cot^{-1} x$ in $y \in (0, \pi)$	
TOTAL	**60**	**TOTAL**	**33**	**TOTAL**	**28**

5.TWO DIMENSIONAL ANALYTICAL GEOMETRY - II

2mark		3mark		5mark	
Examples	Exercise	Examples	Exercise	Examples	Exercise
5.1, 5.3, 5.4, 5.5, 5.6, 5.12	1, 2, 5, 11 (i, ii, iii, iv)	5.2, 5.7, 5.8, 5.9, 5.11	3, 4, 7, 8, 9, 10, 12	5.10, 5.13	6

5.14 (184 p) & 192, 5.15 (187 p) & 192, 5.16 (192 p), 5.18 (193 p), 5.25 (196 p).	1(i,ii,iii,iv)	5.17 (192 p), 5.23, (195 p).	2(i, ii, iii, iv),3(i, ii, iii), 4(i, ii, iii), 5(i, ii, iii, iv), 6, 7.	5.19 (193p), 5.20 (194p), 5.21 (194p), 5.22, 5.24.	4 (iv, v), 8(i, ii, ii, iv, v, vi)
5.26 (1, 2, 3, 4)(199 p)	1, 2, 3, 4, 5, 6	-	-	-	-
-	-	-	4, 5, 6, 7, 8	5.27, 5.28 (205 p)	1, 2, 3
5.31, 5.37.		5.30, 5.32, 5.33, 5.34, 5.35, 5.36, 5.38.		5.39, 5.40.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
:DEFINITION: *Definition 5.1 *Definition 5.2 *Definition 5.3 *Definition 5.4 *Definition 5.5 *Asymptotes	:THEOREM: *Theorem 5.2	:THEOREM: *Theorem 5.3 *Theorem 5.4 *Theorem 5.6	:THEOREM: *Types of ellipses with center at (h,k). *The sum of the focal distances of any point on the ellipse is equal to length of the major axis. *Types of Hyperbola with center at (h,k). *How to identifying the conics from the general equation of the conic		:THEOREM: *Theorem 5.1 *Theorem 5.2 *Equation of the tangent and normal at a point p on a given circle. *General equation of the conic. *Equation of a Parabola in standard form. *Equation of a Ellipse in standard form. *Equation of a Hyperbola in standard form.
TOTAL	41	TOTAL	49	TOTAL	40

6.APPLICATION OF VECTOR ALGEBRA

2mark		3mark		5mark	
Examples	**Exercise**	**Examples**	**Examples**	**Exercise**	**Examples**
		6.1, 6.2, 6.8, 6.9, 6.10, 6.11	1, 2, 3, 4, 5, 6, 7, 11, 12, 13, 14	6.3, 6.4, 6.5, 6.6, 6.7	8, 9, 10
6.12,6.13,6.14,6.15, 6.18	1,2,3,7,8	6.17	4,6,9,10	6.16	5,
6.20, 6.21	6	6.19	1, 2, 3, 7, 8	6.22, 6.23	4, 5
	1,2,9	6.24, 6.25, 6.28, 6.29, 6.30, 6.31, 6.32	4, 6, 8	6.26, 6.27	3,5(i, ii, iii),7
		6.36, 6.37	1, 2, 3, 5, 6, 7	6.33, 6.34, 6.35	4
6.38, 6.39, 6.40, 6.41, 6.42	1, 2, 3, 4, 5		6		
		6.43		6.44	1, 2, 3, 4, 5, 6, 7
			2, 3, 4,	6.46	1, 4
6.47, 6.48, 6.49, 6.51, 6.52, 6.53,	3, 4, 6	6.50, 6.54, 6.55, 6.56	1, 2, 5, 7		8
:DEFINITION: *Definition 6.1 *Definition 6.2 *Definition 6.3 *Definition 6.4 *Definition 6.5 *Definition 6.6 *Definition 6.7 *Definition 6.8	:THEOREM: *Theorem 6.4 *Theorem 6.5 *Theorem 6.7 *Theorem 6.11 *Theorem 6.12 *Theorem 6.17 *Theorem 6.18 *Theorem 6.19	:THEOREM: *Theorem 6.1 *Theorem 6.2 *Theorem 6.3 *Theorem 6.6 *Theorem 6.10 *Theorem 6.20 *Theorem 6.21 *Theorem 6.23	:DEFINITION: *Definition 6.13 *Definition 6.15		:THEOREM: *Theorem 6.8 *Theorem 6.9

*Definition 6.14 *Definition 6.16	*Theorem 6.22				
TOTAL	50	TOTAL	77	TOTAL	34

VOLUME - 2

7. APPLICATIONS OF DIFFERENTIAL CALCULUS

2mark		3mark		5mark	
EXAMPLE	EXERCISE	EXAMPLE	EXERCISE	EXAMPLE	EXERCISE
7.2, 7.3, 7.16	4, 6	7.1, 7.4, 7.5, 7.8, 7.11, 7.12	1, 5, 7	7.6, 7.7, 7.9, 7.10	2, 3, 8, 9, 10
	1(i), (ii)	7.19, 7.20, 7.21, 7.22, 7.25, 7.26, 7.27, 7.28, 7.29	2, 3, 4, 5 (i),(ii) (iii), 9,10	7.13, 7.14, 7.15 7.17, 7.18	5, 6, 7
7.33, 7.34, 7.35	1 (each)				
		7.32	1 (i), (ii) , (iii), 2, 3, 4	7.24	1(iv), (v), (vi)
7.42, 7.46, 7.47, 7.52		7.36, 7.37, 7.38, 7.39, 7.40, 7.41	5, 6, 7, 12		
		7.48, 7.49, 7.51	1(I), (ii), (iii), (iv)	7.43, 7.44, 7.45	2(ii), (iii), (iv), (v)
				7.50, 7.53, 7.55, 7.56, 7.57, 7.60, 7.61	1 (i), (ii), (iii) 2 (i), (ii), (iii) 3
		7.58, 7.59	1, 2, 3, 11	7.62, 7.63, 7.64, 7.65	4, 5, 6, 7, 8, 9, 10, 12
	1(i), (ii)	7.66, 7.67, 7.68	1 (iii), (iv) , (v)	7.69, 7.70, 7.71, 7.72	2 (i), (ii), (iii), (iv), (v)

:DEFINATION:		:THEOREM:			
*Slope *Taylors series *Maclaurin's series *Absolute maxima, absolute minima. *Horizontal Asymptote *Vertical Asymptote *Slant Asymptote		*Intermediate value Theorem *Rolle's theorem *Lagrange's mean value theorem *Extreme value Theorem *Format *First derivative test *Test of concavity *Test for points of Inflection *The second derivative test			
TOTAL	**24**	**TOTAL**	**71**	**TOTAL**	**63**

8.DIFFERENTIALS AND PARTIAL DERIVATIVES

2mark		3mark		5mark	
EXAMPLE	EXERCISE	EXAMPLE	EXERCISE	EXAMPLE	EXERCISE
8.3	1	8.1, 8.2, 8.4	1, 2 (i), (ii), (iii), 3 (i), (ii), (iii).		4, 5, 6, 7
	6, 7, 8	8.5, 8.6, 8.7	1(i), (ii), (iii), 2 (i), (ii), 3 (i), (ii), 9		4, 5, 10, 11
	1, 2, 3, 4, 5, 6, 7	8.8, 8.9, 8.10			
8.15	1 (i), (ii), (iii), (iv)	8.11, 8.12, 8.14	3, 4, 5 (i), (ii), (iii), 9	8.13	2(i), (ii), (iii), 6, 7, 8, 10.
8.16,8.17			1, 2, 3, 4, 5		
		8.18, 8.19, 8.20	1		2, 3, 4, 5, 6, 7, 8, 9
8.21	1 (i), (ii), (iii), (iv), 4		2, 3, 5, 6	8.22	
:DEFINATION: *Linear Approximation *Actual value *Approximate value	-	-	-	:THEOREM: *Clairaut's theorem	

*Relative error *Limit of a function *Continunity. *Laplace's equation *Euler					
TOTAL	**33**	**TOTAL**	**46**	**TOTAL**	**26**

9. APPLICATION OF INTEGRALS BASIC INTEGRATION FORMULAS

2mark		3mark		5mark	
EXAMPLE	EXERCISE	EXAMPLE	EXERCISE	EXAMPLE	EXERCISE
			1, 2, 3	9.1	
		9.2, 9.3	1(i)	9.5	1(ii)
9.5,9.7	1(i), 2(i)	9.6, 9.8, 9.9, 9.10, 9.11, 9.14, 9.22, 9.23, 9.24, 9.25, 9.26, $\int_0^a \frac{f(x)}{f(x)+f(a-x)}dx$	1(ii), (iii), 2(ii), (iii), (v), (xi)	9.12, 9.13, 9.15, 9.16, 9.17, 9.18, 9.19, 9.21, 9.27, 9.28, 9.29, 9.30	1(iv), (v), (vi), 2(iv), (vi), (vii), (viii), (ix),(x)
		9.31, 9.32, 9.33, 9.34	4		1, 2, 3 1. $\int x^3 e^{2x} dx$ 2. $\int x e^{-4x} dx$ 3. $\int x e^{-2x} dx$
9.35		9.36	1(i), (ii)		
9.37, 9.39 (i) (ii),	1(i), (ii), (vii), (viii) 1. $\int_0^{\frac{\pi}{2}} \sin^7 x\, dx$ 2. $\int_0^{\frac{\pi}{2}} \sin^5 x\, dx$ 3. $\int_0^{\frac{\pi}{2}} \cos^8 x\, dx$ 4. $\int_0^{\frac{\pi}{2}} \cos^{11} x\, dx$	9.38, 3.40, 9.42	1(iii), (iv), (v), (vi)	-	-

	5. $\int_0^{\frac{\pi}{2}} \cos^9 x\,dx$				
9.44	1 (i)	9.43, 9.45, 9.46	1(ii), 2	-	-
	1,2	9.47, 9.48, 9.49, 9.50, 9.51, 9.52, 9.53	1,2	9.54, 9.55, 9.56, 9.57, 9.58, 9.59, 9.60, 9.61	3, 4, 5, 6, 7, 8, 9, 10
		9.65, 9.66, 9.67, 9.68, 9.69	1, 2, 3	9.62, 9.63, 9.64	4,5,6
:PROPERTY: PROPERTY – 5 PROPERTY – 9			:PROPERTY: PROPERTY – 1 PROPERTY – 2 PROPERTY – 3 PROPERTY – 4 PROPERTY – 10 PROPERTY – 12 EXAMPLE 9.20	:PROPERTY: PROPERTY – 6 PROPERTY – 7 PROPERTY – 8	Reduction formulae: 1. $\int \sin^n x\,dx$ 2. $\int \cos^n x\,dx$ 3. $\int_0^{\frac{\pi}{2}} \sin^n x\,dx$ 4. $\int_0^{\frac{\pi}{2}} \cos^n x\,dx$
TOTAL	**23**	**TOTAL**	**68**	**TOTAL**	**59**

10. ORDINARY DIFFERENTIAL EQUATIONS

2mark		3mark		5mark	
EXAMPLE	EXERCISE	EXAMPLE	EXERCISE	EXAMPLE	EXERCISE
10.1 (i, ii, iii, iv, v)	10.1(i, ii, iii, iv, v, vi, vii, viii, xi, x)				
-	1(i, ii, iii, iv), 2				
10.2, 10.3, 10.5,	1.	10.4, 10.6	2, 3, 5, 7, 8		4, 6
10.7, 10.8	1(i, ii), 2 (i)	10.9, 10.10	2 (ii), 3, 4, 5, 8.		6, 7
10.16	4 (i)	10.11, 10.12, 10.13, 10.14	1, 4(ii, iii, iv, vii, viii, ix)	10.15	2, 3, 4 (v) (vi) (x)
		10.22, 10.24, 10.26		10.17, 10.18, 10.19, 10.21	1, 2, 3, 4, 5, 6, 7, 8

		10.22, 10.26	1, 5, 6, 10	10.23, 10.24, 10.25	2, 3, 4, 7, 8, 9, 11, 12, 13, 14, 15
		10.28,		10.27, 10.29, 10.30	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
:DEFINITION: *Differential equation *Order of a differential Equation. *Degree of a Differential equation. *Ordinary differential Equation. *Partial differential Equation. *A general linear ordinary differential Equation of order n. *A nonlinear ordinary Differential Equation. *Homogeneous and Non Homogeneous *Solution of Differential Equation. *General solution. *Particular solution.		:DEFINITION: *Homogeneious function of degree n *Homogeneous Differential Equations			
TOTAL	43	TOTAL	37	TOTAL	49

11.PROBABILITY DISTRIBUTIONS

2mark		3mark		5mark	
Examples	Exercise	Examples	Exercise	Examples	Exercise
11.1, 11.4	1, 2, 5	11.2, 11.3.	3, 4		
		11.5, 11.6, 11.7, 11.9	1, 2, 7	11.8, 11.10	3, 4, 5, 6

11.13	1,	11.14	2,	11.11, 11.12, 11.15	3, 4, 5, 6
			1(i, ii, iii, iv), 2, 3, 5, 6	11.16, 11.17, 11.18	4, 7, 8
11.19	1(i, ii,iii)	11.20, 11.21, 11.22	2, 3, 4		5, 6, 7, 8, 9
:DEFINITION: *Random variable *Types of Random Variable *Discrete Random Variable *Probability mass Function *Cumulative distributive function *Continuous random Variable *Probability density Function *Distribution function *Mean *Variance *Bernoulli distribution *Binomial distribution *Binomial random variables		:PROPERTIES: *Properties of distribution function *Properties of mathematical expection and variance			
TOTAL	24	TOTAL	29	TOTAL	25

12.DISCRETE MATHEMATICS

2mark		3mark		5mark	
Examples	Exercise	Examples	Exercise	Examples	Exercise
-	-	12.1, 12.8	1(i, ii, iii), 2, 3, 4, 6, 7	12.2, 12.3, 12.4, 12.5. 12.6, 12.7, 12.9, 12.10	5, 8, 9, 10
-	-	12.11, 12.12, 12.13, 12.14, 12.15, 12.16, 12.17, 12.18, 12.19	1, 2, 3, 4, 5, 10, 11, 12, 13, 14		6,(i, ii, iii, iv), 7 (i, ii, iii, iv), 8(I, ii), 9, 15

:DEFINITION:		:THEOREM:		:Laws:	
*Binary operation *Algebraic structure *Statement or proposition *Simple and compound statements *Logical connectives *Truth table *Negation *Conjection *Disjunction *Conditional statement *Bi conditional statement *Exclusive OR *Tautology *Contradiction *Contingency *Duality *Logical equivalence		*Unicqueness of Identity. *Uinqueness of inverse		*Idempotent Laws *Commutative Laws *Associative Laws *Distributive Laws *Identity Laws *Complement Laws *Involution Law *De morgan's Law *Absorption Laws.	
TOTAL	17	TOTAL	31	TOTAL	33

PROPRIETOR SIGNATURE