



Padalsalai's Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padalsalai's NEWS - Group
https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padalsalai's Channel - Group
<https://t.me/padasalaichannel>
- Lesson Plan - Group
<https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw>
- 12th Standard - Group
https://t.me/Padalsalai_12th
- 11th Standard - Group
https://t.me/Padalsalai_11th
- 10th Standard - Group
https://t.me/Padalsalai_10th
- 9th Standard - Group
https://t.me/Padalsalai_9th
- 6th to 8th Standard - Group
https://t.me/Padalsalai_6to8
- 1st to 5th Standard - Group
https://t.me/Padalsalai_1to5
- TET - Group
https://t.me/Padalsalai_TET
- PGTRB - Group
https://t.me/Padalsalai_PGTRB
- TNPSC - Group
https://t.me/Padalsalai_TNPSC



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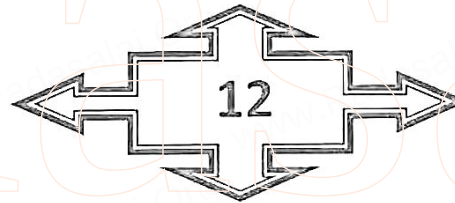
HIGHER SECONDARY - SECOND YEAR

CLASSIFICATION OF TEXT BOOK PROBLEMS

&

CLASSIFICATION OF CREATIVE QUESTION

DEPARTMENT OF MATHEMATICS



: PREPARED BY :

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WEIGHTAGE OF MARKS

S.NO	PURPOSE	WEIGHTAGE
1	KNOWLEDGE	30%
2	UNDERSTANDING	40%
3	APPLICATION	20%
4	SKILL/ CREATIVITY	10%



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BLUE PRINT

2MARK		3MARK		5MARK	
Q.NO	UNIT	Q.NO	UNIT	Q.NO	UNIT
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 - 3	43	UNIT - 5 } UNIT - 6 } ANY 6 QUS UNIT - 7 } UNIT - 8 }
24	UNIT - 4	34	UNIT - 5	44	
25	UNIT - 5	35	UNIT - 6	45	
26	UNIT - 6	36	UNIT - 7	46	
27	UNIT - 7	37	UNIT - 8	47	UNIT - 10 UNIT - 11
28	UNIT - 8	38	UNIT - 9	 P.DEEPAK P.G Asst(maths)M.Sc.,M.A.,B.Ed.,DCA., R.ARTHI B.E(ECE)., Kattuputhur 9944249262,	
29	UNIT - 10	39	UNIT - 10		
30	UNIT - 11	40	UNIT - 12		

CLASSIFICATION

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	-	1.3,1.8	1(i,i,iii) 2(i,ii,iii) 3,5,6,7,8,9,10,11,15	1.1,1.9,1.10, 1.12	4,12,13,14
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),3,4	1.23,1.24	1(iii,iv),2,5
-	-	-	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	-	1.36,1.37,1.38, 1.39,1.40	1(i,ii),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	28	TOTAL	37	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(ii),3	-	-
2.3,2.4,2.5,2.6,2.7	1(i,ii,iii) 2(i,ii,iii)	2.5	3,4,5,6,7	2.8	-
2.11,2.17	1(i,ii,iii,iv) 8,10(i,ii,iii)	2.9,2.10(i,ii,iii) 2.12,2.13,2.1	2,3,6,9	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
2.22,2.23,2.24	1((i,ii,iii,iv)	2.25	4	2.26,2.27	2,3,4,5,6
-	1	2.28,2.29,2.30	6,7,8,9	2.31,2.32,2.33,2.34, 2.35,2.36	2,3,4,5,10
: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	
TOTAL	67	TOTAL	39	TOTAL	29

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	3.4,3.5,3.6,3.7	1,5,8,9,10	3(i,ii,iii)	4,6,7,
3.8,3.9,3.11,3.12,3.13	2,3,	3.10, 3.14	1,4,	-	5
3.19,3.20	2,7	3.16,3.17,3.18	1,3,6(i,ii)	3.15,3.21,3.22,	4,5
-	-			3.23,3.24	1(i,ii),2
-	-	3.25,3.27,3.29	1(i,ii),2(i,ii),6	3.26,3.28	3,4,5(i,ii),7
3.30,3.31(i,ii)	1,3,4,5	-		-	2
:DEFINITION: *The fundamental Theorem of algebra *Definition 3.1 *Definition 3.2	:THEOREM: *Theorem 3.4 *Theorem 3.5 *Theorem 3.6 *Theorem 3.7			:THEOREM: *Theorem 3.2 *Theorem 3.3	
TOTAL	33	TOTAL	28	TOTAL	28
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,ii), 4(i,ii),5	-	3,6(i,ii),7	-	-
4.5	1(i,ii),2,3,4, 5(i,ii,iii)	4.6(i,ii,iii),4.7	6,7,8(i,ii)	-	-
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,	1(i,ii,iii)	-	2(i,ii,iii)	-	-

4.15					
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),4(ii),6,7,8, 9(i)	4.22,4.23,4.28, 4.29	3(iii),5, 9(ii,iii,iv), 10
:DEFINITION: *Definition 4.3 *Definition 4.4 *Definition 4.5 *Definition 4.6 *Definition 4.7 *Definition 4.8		:DEFINITION: *Definition 4.1 *Definition 4.2			
TOTAL	60	TOTAL	36	TOTAL	13
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
5.14,5.15,5.16,5.17, 5.18,5.25	1(i,ii,iii,iv)	5.19,5.20,5.24,5.27	2(i,ii,iii,iv),3(i,ii,iii), 4(i,ii,iii),5(i,ii,iii,iv),6,7, 8(i,ii,iii,iv)	5.21,5.22,5.23, 5.26	4(iv,v),8(iv,v)
5.26	1,2,3,4,5,6	ARTHI TUITION CENTER			
5.27,5.28					1,2,3
		5.30,5.31,5.32,5.34,5. .35,5.36,5.37,5.38,5. 39		5.33,5.40,	1,2,3,4,5,6,7,8,9, 10
:DEFINITION: *Definition 5.1	:THEOREM: *Theorem 5.2	:THEOREM: *Theorem 5.3	:THEOREM: *Types of ellipses		:THEOREM: *Theorem 5.1

*Definition 5.2 *Definition 5.3 *Definition 5.4 *Definition 5.5 *Asymptotes		*Theorem 5.4 *Theorem 5.6	- 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 5.2 *Equation of the tangent and normal at a point p on a given circle. *General equation of the conic. *Equation of an Parabola in standard form. *Equation of an Ellipse in standard form. *Equation of an Hyperbola in standard form.
TOTAL	39	TOTAL	57	TOTAL	33
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	1,2,3,4,5,6,7,8,11,12,13,14	6.3,6.4,6.5,6.6,6.7	9,10
6.12,6.13,6.14,6.15	1,2,3,	6.16,6.17,6.18	4,5,6,7,8,9,10		
6.20,6.21		6.19	1,2,3,6,8	6.22,6.23	4,5
	1,2,9	6.24,6.25,6.26,6.28,6.29,6.30,6.31,6.32	4,6,7,8,	6.27	3,5(i,ii,iii)

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

ARTHI TUITION CENTER PROPRIETOR SIGNATURE

R. Arthi