

BASIC MATHEMATICS(75) BLUE PRINT MODEL PAPER-3 2024-2025

CHAPTERS	Hours	Marks	REMEMBER				UNDERSTAND				HOTS				
			VSA(1)	SA(2)	SA(3)	LA(5)	VSA(1)	SA(2)	SA(3)	LA(5)	VSA(1)	SA(2)	SA(3)	LA(4)	LA(6)
1.Matrices and Determinants	13	13	2		1			1		1	1				
2.Permutations and combinations	8	8	1	1	1		1				1				
3. Probability	5	3	1					1							
4.Binomial Theorem	6	4												1	
5.Partial Fractions	4	5				1									
6. Mathematical Logic	6	6	1			1									
7. Ratios and Proportions	10	8	2	1	1		1								
8. Bill Discounting	6	5		1					1						
9. Stocks and shares	4	3			1										
10. Learning Curve	4	5				1									
11. Linear Programming Problems	6	5								1					
12. Sales Tax and Value Added Tax	4	3			1										
13.Heights and Distances	4	4												1	
14. Compound, Multiple, Sub-multiple angles & Transformation Formulae	8	7	1				1			1					
15. Circles	6	6													1
16. Parabola	4	4	1				1	1							
17. Limits and Continuity of a function	8	7	1												1
18. Differential Calculus	10	8	1	1						1					
19. Application of Derivatives	8	5						1					1		
20. Indefinite Integrals	8	5	1						1		1				
21. Definite Integrals and its application to Areas	8	6						1			1		1		
TOTAL	140	120	12	8	15	15	4	10	6	20	4		6	8	12

Question Type	No. Of Questions	Marks
VAS(1)	20/20	20/20
SA(2)	06/09	12/18
SA(3)	06/09	18/27
LA(4)	01/02	04/08
LA(5)	04/07	20/35
LA(6)	01/02	06/12
Total	38/49	80/120

Note: * 6 marks question from circles on concyclic and Theorem 1 from limits.

* 4 marks question from Binomial Theorem and Heights and distances.

* Proof and problems on properties of determinants are excluded.