

## Blue print of Applied Maths 1 question paper

1	a	Relation between circular and hyperbolic function (03 marks)
	b	Problems on basic partial derivatives (03 marks)
	c	Jacobians (03 marks)
	d	Expansion standard series (03 marks)
	e	Properties of matrices (04 marks)
	f	Problems on standard formula of successive derivatives (04 marks)
2	a	Complex Numbers- Powers & Roots (06 marks)
	b	Matrices PAQ/normal form (06 marks)
	c	Euler's theorem with deduction (08 marks)
3	a	Linear homogenous and non-homogenous equations (06marks)
	b	Maxima and minima/Lagranges method (06 marks)
	c	Separation of real & imaginary parts (08 marks)
4	a	Jacobian of implicit functions/partial derivative of implicit functions using Jacobian (06 marks)
	b	Logarithm of complex numbers (06 marks)
	c	Numerical methods (08 marks)
5	a	Expansion of sine and cosine, etc (06 marks)
	b	Expansion of series/indeterminate forms (06 marks)
	c	Problems on Leibnitz's theorem (08 marks)
6	a	Linear independent & dependent vectors /Numerical methods (06 marks)
	b	Composite/Implicit functions (06 marks)
	c	Fitting of curves/Regression (08 marks)

Note:

1. Each Question of 8 marks may be converted into two questions of 4 marks each
2. NO question on correlation coefficient is expected.