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**	**(06marks)**
	c	**Euler's theorem with deduction**	**(08 marks)**
3	a	**Linear homogenous and non-homogenous equations**	**(06 marks)**
	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.

Engineering Buddy