

Blue print of Applied Maths 2 question paper

Theory Examination

1. Question paper will comprise of 6 questions, each carrying 20 marks.
2. Total 4 questions need to be solved.
3. Q.1 will be compulsory, based on entire syllabus wherein sub questions of 3 to 4 marks will be asked.
4. Remaining questions will be randomly selected from all the modules.

1	a	1.1	Beta and Gamma Functions	(03 marks)
	b	2.2	Finding C.F or P.I	(03 marks)
	c	4.3	Relation between Δ, ∇, E	(03 marks)
	d	3.2	Change to Polar Co-ordinates and Evaluate	(04 marks)
	e	1.3	Problems on Exact Equations (04	(04 marks)
	f	3.2	Evaluation of Double Integrals	(03 marks)
2	a	2.1	Reducible to Linear Differential Equations	(06 marks)
	b	3.2	Evaluation by Change of Order of Integration	(06 marks)
	c	1.1	Beta and Gamma Functions / DUIS	(08 marks)
3	a	4.1	Evaluation of Triple Integrations	(06 marks)
	b	4.2	Applications of Double Integrations	(06 marks)
	c	2.3	Cauchy's/ Legendre Homogenous Equations / Variation of Parameter	(08 marks)
4	a	1.2	Rectification	(06 marks)
	b	2.2	Linear Differential Equation with constant co-efficient	(06 marks)
	c	3.1	Runga Kutta Method	(08 marks)
5	a	1.3	Reducible to Exact Differential Equations	(06 marks)
	b	3.1	Taylor's/ Euler's / Euler's Modified Method	(06 marks)
	c	4.3	Numerical Integrations	(08 marks)
6	a	2.4	Applications of Differential Equations	(06 marks)
	b	3.2	Double Integration over Given Region	(06 marks)
	c	4.2	Applications of Triple Integrations	(08 marks)

Note:

- 1) From sub-topic on Newton's interpolation, on examples are expected.
- 2) Each Questions of 8 marks may be converted in to two question of 4 marks each.
- 3) Programmable calculations are NOT allowed.