

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)	(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 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)
	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)

(**Unit titles are written in brief)

Topic No.	Unit No	Unit Title**	Unit wise Marks	Topic wise Marks
01	1.1	Beta & Gamma functions & DUIS	11	27
	1.2	Rectification	06	
	1.3	Exact Differential equation	10	
02	2.1	Reducible to Linear Differential equation	06	29
	2.2	Linear D.E. with constant co-efficient.	09	
	2.3	Cauchy's/Legendre's/variation of parameters	08	
	2.4	Application of D.E	06	
03	3.1	Solving D.E. by Numerical methods	14	33
	3.2	Double Integration	19	
04	4.1	Triple integration	06	31
	4.2	Application of Double integration and triple integration	14	
	4.3	Numerical Integration	11	
Total				120

Weightage wise Blue print

Topic No.	Unit No	Wtge	Q1 Comp	Q2 Op	Q3 Op	Q4 Op	Q5 Op	Q6 Op
01	1.1	11	03	08				
	1.2	06				06		
	1.3	10	04				06	
02	2.1	06		06				
	2.2	09	03			06		
	2.3	08			08			
	2.4	06						06
03	3.1	14				08	06	
	3.2	19	07(3+4)	06				06
04	4.1	06			06			
	4.2	14			06			08
	4.3	11	03				08	
	Total	120	20	20	20	20	20	20