

Advanced Calculus Pdf Notes

R	egis	stration No :	
Tot	al Nu	umber of Pages : 01	M.Sc.I FMCC501
Q1	a) b)	- 2013에 1월	st. (2 x 10)
	c) d) e) f) g) h) i)	Define central field with an example. Define extremal of a functional and variational problem. Define conjugate point in a central field. Define a nonlinear Voltera integral equation of second kind with an example.	
Q2		State and prove the fundamental lemma of the calculus of variations.	(10)
Q3	-	Find the extremals of the functional $V[y(x), z(x)] = \int_{0}^{\frac{\pi}{2}} \left[(y')^{2} + (z')^{2} + 2yz \right] dx, \ y(0) = 0, y\left(\frac{\pi}{2}\right) = 1,$	(10)
		$V_{1}y(x), z(x) = \int_{0}^{1} [(y') + (z') + 2yz] dx, y(0) = 0, y(\frac{1}{2}) = 1,$ $z(0) = 0, z(\frac{\pi}{2}) = -1$	
Q4	a) b)	Show that a boundary value problem of a second order differential equation can be reduced to a Fredholm integral equation of the second kind. Differentiate between Fredholm Integral Equation and Voltera Equation.	(7) (3)
Q5		Test for an extremum of the functional ecture Notes. in $\int_{0}^{x_{1}} \frac{1}{y} \left[\sqrt{1 + (y')^{2}} \right] dx,$ given that $y(0) = 0$ and $y_{1} = x_{1} - 5$	(10)
Q6		State and prove the orthogonality property of the Legendre polynomials.	(10)
Q7	a) b)	With the aid of the resolvent kernel , determine the solution of the integral equation	(2) (8)
		$\phi(x) = \cos x + 2 \int_0^x e^{x-\xi} \phi(\xi) d\xi,$	
Q8		Show that the positive zeros of $J_0(x)$ and $J_1(x)$ separate each other.	(10)

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