

All Programs Semester I CAT II - January 2022

Answer uploading Template

215CSE1410079

Ananya Kumar

B. Tech CSE [A]

Name of Course

Course Code

Date of

Multi Variable

BBS OIT1001

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Enrolment / Admission

No. of Student Name of Student

Program

Program	B. Tech CSE [A]	Date of Examination	16 January, 2022
Semester	1	Time	2:00 pm - 3:30 pm
Signature of Student	Aumal		
Student shall start wi	riting from below:		
As.			
f Cn, y	$\frac{2 \mu}{4 - \mu^2}$		•••••
, ,	4-22		
f (h)	y) will be def	ined when,	
4.6.7	1,	······	
	4-n2 to		
	y + n	2	
H2.222	y-u2 +0 y + u3 Domain =	6(W4): 4±	n23
		E TOTAL	
	lange = R2	(000 Road)	aumbars.)
4x	ary - 1		
		^2 ^2	
A2.	2 udydn =>	12ndi	r cly
Jo Ja		10 Jo	
Λ2	2 2	(2)	× 1
	2 mg dy -) (4) dy
0	~ J0 V	<u> </u>	
		_ [4,	$1^{2} = 8 A$

1

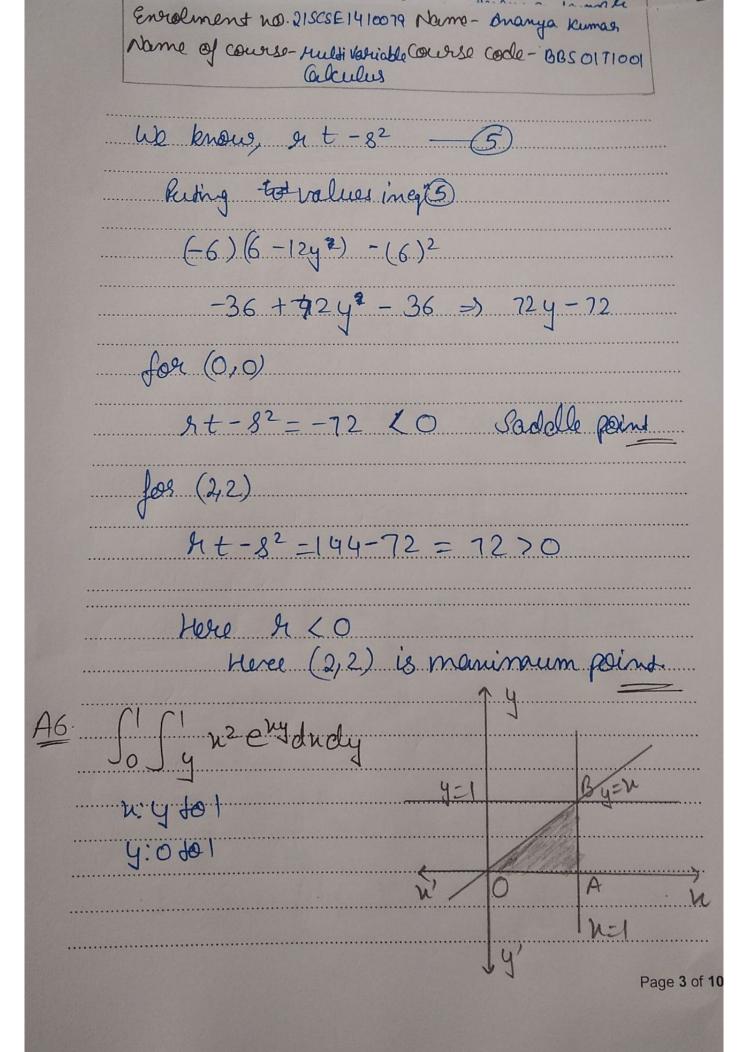
	Name 10. 215CS E1410079 Name - Dranga Kumali	
	Name of Course-Hulti Variable Course code-BBSOIT 1001 Calculus	
	(h/d) - 10/0) N549-	
	Case 1: $\chi=0$, $y\to0$	
*****	$4 = \lim_{(0,y) \to (0,0)} \frac{2k(0) \times y}{(0)^{2} y^{2}} = 0$	
	<u>Case 2</u> : 4=0, ~>0	
	$L_2 = \lim_{(N_10) \to (0_10)} \frac{2 \times (0)}{2 \times (0)^2} = 0$	
	Case 3: u=y	
	$L_3 = \lim_{(n,n) \to (0,0)} \frac{2(n)(n)}{n^2 + n^2}$	
	$-\lim_{(21/N)\to(0/0)} \frac{2N^2}{2N^2} - 1$	
	$L_1 = L_2 \neq L_3$	
	Hence limit for formetion lin 2 hy	-
	does not exist.	

Randoment no. 21508 E1410079 Name - Anonya Kermani Name of course-trubi Valiable Course Code - BBS 017 1001 Calculus (my) dA f(ny) = 100-6 n2g (100 - 6 wy) drdy 8 ++200 +8 =400 f(x,y)=-3x2+3y2+6hy-2y3 Differentiation w.s. + n w z df _ -6 w +6 y -4 m Differential 8. + 4 2 f - 64 + 62 - 64 Equating of 4 0 LD -64+64=44=0 => 64=10h=35x-34=

Name of Course-hulti Variable Course code-BBS01 T1001 Kuting 3 in 9 $6y + 6y = 6y^2$ 4=2,0 Critical points are (0,0) & (2,2) Second delications

Enviolment no. 213CS E1410079 Name - Ananya Kumar

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Name of course-Hulti Variable Course Cade-BBSOI TIOO!
Calculus

Region 20 be integrated in DOAB
For reversing order, limits vill be charged
y:0.60 L
I = Job n2 end dudy
= [[[12 [" 2 "]] du
= for [we [engly] du
= [[[e ⁿ² - e ⁰]] du
- lo [xen-n] du
$=\int_0^1 u e^{u^2} du - \left(\frac{u^2}{2}\right)_0^1$
$I = \int_0^1 n e^{k^2} dn - \frac{1}{2} - 0$

