	Novice goods with
	The state of the s
	190001030 Page 3 RANKA
	Short - Man 1
	Man 2 4 2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
<u>(q)</u>	Let, f be analytic function. S.t.
V.	
	$f(z_n) = (-1)^n z_n$
	SznicN(0,1), Zn+o Zn->o ca n-o
	of zn(CN(O,1), Ento ch
	$\frac{1}{2}$, $\frac{1}{2}$
	$n \to \infty$ $\Rightarrow Z = 0 \text{ is limit point of } \{Z_{a}n^{3}\}$
	of any of any of the state of t
	Let $g(z) = Z$, $f(z) = (-1)^n Z_n$
	all the second s
	S= {zn} nzo D= N(0,1)
.	1 0 01 1741 min 15-11 775 1-
-	=> 0 is limit point of S and 0
·	belongs to N(0,1).
	ham so 5. A responsives of 15-111.
	By Uniqueness theorem
	$f(z) = g(z) = 7 \implies f(z) = 7$ Answer matches word by word with the answer
-	of other students, even the mistakes. Marks
	But for $n = 2n + 1$
1 = 1.1	$f(z_n) = -Z_n = Z_1.25$
	\Rightarrow $2n=0$
1 - 15 - 25	But, obis not in \$2,3
	agreed have hardalked and armout
	So, Contradiction!
	>> I here does not exist any
	malytic function
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7	Kuldeep Singh 19000 1030 Ranka Ranka
S	8
	gn other, p(z)e1/z must have singularities
	Since, its lawrent Expansion contains terms of
	negative power.
9	
	So, $p(z) = 0$ then no Polynomial S.t. $p(z) e^{i/z}$ is entire.
	p(z) e'z in entire.
	13 mg and 15 mg
	Prost do Trios famil a. 0= 1.
((Jet D: domaine 12/5/
	as well (=) + S=(5)
	Mow Tolli-ZI is analytic + ZEC 2.
2	> [1-Z] onalytic in D.
-	Thro 2 No tries they'll is o see
•	Const of project
•	11-21 is continous + ZEC and
4	hence at m/z/=// tom Down
	$Z = (2) \frac{1}{2} = (2) \frac{1}{2} = (2) \frac{1}{2} = (2) \frac{1}{2}$
9 4	11-z is a non-zero.
	Desir 12/47 is bounded with M=1.
0	Domain 12151 is bounded with M=1.
	las las maximum modulaus
1	Au the condition for maximum modulous theorem are satisfied and Hence,
	0 14 71 1 171 171
1	maximum of 11-21 tes in (21-1
	$ 1+(-z) \leq 1 + -z $
	a=1 $ a=1 $ $ a=-2 $
	2 19+b \(a + b
	Herce, Maximum value is 2. The Point is Z=-1

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***	A. S.	Page Dink.
		In other, p(z)e'z must have singularities
		Since its laurent Expansion Contains towns of
		negative power. 0.5
		So, $P(z) = 0$, then no Polynomial S.t. $P(z) e^{1/z}$ is entire.
		p(z) e is entire.
72		
**	<u>C</u>	Jet D: domain 121≤1
		and contour c enclosing D be c: z =1
		as well
		Now 11-71 is another + 7+0
		> 1-Z is analytic + Z+C.
**		J
*		
	•	11-21 is continour + ZEC and
		hence, at $ z =1$ to D.
		11-zlis a non-zero.
	4	
	0	Domain 121 & I is bounded with M=1.
•		Au the condition for maximum modulous
		theorem are satisfied and Hence, maximum of 11-21 lies in 121=1
		maximum of 11-21 des in (21-1
		+ (-z) \le 1 + -z ,
100		$\leq 11 + z \qquad \alpha = 1 \qquad b = -2 $
		19+b < a + b
		Herrez Maximum value is 2.