	2011
1416 30 m. 160. m. s	ESO 212 QUIZ 3 PAPER A MODEL SOLUTION
1.774.77	
0	line wortex Uz=0, 20= K
	given $z_0 = 2$, $y_0 = 2$.
	given $2_0 = 2$, $y_0 = 2$.
	given $v_0 = \frac{1}{2}$ at $x = 0$ $y = 0$
	=D 1 = K = 1
	$= D = K = 1$ $= \sqrt{2^2 + 2^2} \qquad = \sqrt{2} \times \sqrt{2}$
	αr , $K = \sqrt{2}$
	Then, $at 2=1, y=1$
	$v_0 = \sqrt{2} = \sqrt{2} = 1.$
411811111111111	$v_0 = \sqrt{2} = \sqrt{2} = 1.$ $\sqrt{(1-2)^2 + (1-2)^2} = \sqrt{2}$ $v_0 = \sqrt{2} = 1.$ $\sqrt{(1-2)^2 + (1-2)^2} = \sqrt{2}$ $\sqrt{(1-2)^2 + (1-2)^2} = \sqrt{2}$
	$V_{v=0}$, $V_{v=1} = 1$ Correct Ans. (A)
	THE PROPERTY OF THE PROPERTY O
2	For potal flow at A, U, =0, Vo =0
	at B, $V_{Y}=0$, $V_{0}=-2U$.
	Correct Ans. (D)
3	For pohl flow, PA:>PB, Pc>PD

Correct Ans. (C)

PCS

2-D botenhal flows: FALSE Statemant on RRS Correct Ans (D) Cf = 30 Cw = $\frac{(const)}{2} \frac{1}{2} g u^2 \cdot \frac{1}{\sqrt{3} u x}$ = (anst) 1802 /h 1 2 Ve) 7 V2 all consts. $= 2 \times \left\{ W \right\} = 2 W \times \int \frac{da}{a v_2}$ $= 2WK L^{1/2} \times 2$ $= W \int T_{\infty} dx = WK (2L)^{1/2} \times 2$ 21/2 WKL1/2 X2 FB = V2 => Correct Ans: (A) 2 PCS:

11