## CIVL 5076 Coastal Engineering Fall Semester 2005

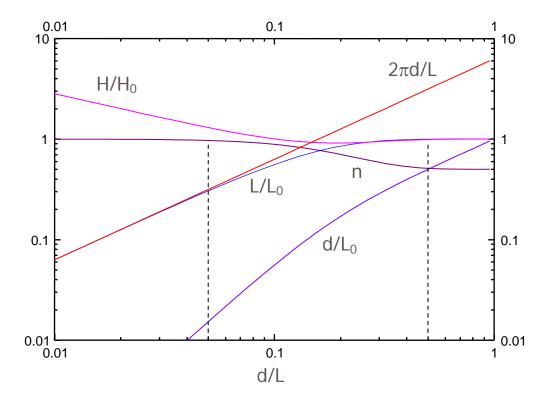
## Quiz No. 1

		#:	
	eal marks: 10 empt all the questions.	Time allowed: 30 minut	es
1.	In deep water condition the water particle figure is that?	paths follow a geometrical figure.	
	Answer:		
	In deriving small amplitude wave theory, What does it mean?	the flow is considered to be irrotated.	
	Answer:		
3.	The total acceleration in x-direction is given	as: $a_x = u \frac{\partial u}{\partial x} + w \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x}$	
	Write down the relationship for total accomeaning of every term.	· · · · · · · · · · · · · · · · · · ·	
	Answer:		
4.	Which one is correct? The deep water wave depth and wave period, (c) wave period onl		

Answer:

5. Sketch a typical wave profile. Show the vertical pressure distribution under crest and trough. Show the hydrostatic and dynamic pressure components on the figure. [3] Answer:

6. Using the following figure determine the wave length for a 2-sec wave in 10m deep seawater ( $\rho$ =1030kg/m<sup>3</sup>). [2]



Answer: