

method



NPTEL ONLINE COURSE

STRUCTURAL HEALTH MONITORING

TUTORIAL 6

Answer all the questions (Total marks: 20)

PART -A (5X1=5)

		
1 are guided waves that travel in layered ma	nterial.	
2. PWAS is an active sensor. State True or False.		
3. In flat plates, ultrasonic guided waves travel as	and	
4. In pitch-catch method, flaws are detected by	and	_due to damage.
5. Cracks are generally initiated in composites by	and	<u>.</u>
<u>PART -B (5X3=15)</u>		
1. List the drawbacks (if any) of deploying ultrasonic method	?	
2. Explain passive SHM.		
3. List the advantages of PWAS?		
4. Discuss the applications of embedded NDE, using pitch-catch method		

5. Express the relationship used to determine probability of crack detection by pitch-catch