## **Department of Forest Products Technology**

## PUU-28.4001 WOOD MODIFICATION

## Examination date 18th December 2009

1. Explain briefly the following terms:		(5 marks)
i. 'Relative humidity'		
ii. 'Biodeterioration'		
iii. 'Weathering'	·	
iv. 'Surface modification'	Now b	
v. 'Fibre saturation point'	how poo	
2. Define wood modification and explain how, whe wood from decay, it differs from tradition preserves		protect (5 marks)
3. Briefly explain what causes 'movement' in woo	od and how modification can be	used to
overcome this	~ - or	(5 marks)
4. Explain how an improvement in the dimensiona	al stability of wood would be que grav. Ase and smelly shahere of.	antified (7 marks)
5. Explain what is meant by 'acetylation' and desc MC Special Special 5. Describe factors that might affect the impregna	, 1, 6	cetylation (8 marks)
6. Describe factors that might affect the impregna	tion modification of wood	(10 marks)
7. Write an essay on <u>one</u> of the following:	species phentical supposed phentical MC, diffusion	(10 marks)
a) Challenges and opportunities for furfury b) Manufacture and applications for therm c) Chemical modification of wood d) Property changes in wood following modification.	ally modified wood	plants  plants  port  etal  epopul rent  used dodding