Name:

Group/Cyele:

Entry No. TTL311: High Performance and Specialty Fibres

MAJOR TEST (29 November 2006) Part A: Max. Marks: 20. Provide answers to all questions in the space provided.		
	(a) What are Phase Change materials?	1+1+2
	(b) Give one example.	
	(c) How do they regulate temperature in a thermoregulated textile?	
	,	
2.	How high strength is achieved through Gel spinning?	4

4x2

1+3

- 3. (a) Explain the mechanism for temperature sensitive polymers with an example.
 - example.

(b) How can the temperature of transition be tuned in such polymers?

- 4. (a) What decides the bulk temperature of plasma?

 - (b) Explain the mechanism by which plasma modifies the surface chemistry of a textile substrate?