## **QP Code 12437**

N.B.:

(1) Question No.1 is compulsory

- (2) Attempt any three questions out of remaining five questions
- (3) Figures to right indicate full marks
- (4) Assume suitable data if necessary and justify the same.

Q.1(A)	Figure 1 shows the rheological behavior of four types of viscous		04
	fluids. With reference to this figure, match the following two lists.		
	List I	List II	
	(Curves In Figure 1)	(Classification)	
	a. Curve A	1. Dilatant	
	b. Curve B	2. Ideal Bingham	
	c. Curve C	3. Pseudo Plastic	
a de la compaña	d. Curve D	4. Newtonian	
films of the	0		
ine is dic lois si i l'alsie bu	Shear Stress	(a)	
2001/200	Shear strain rate		
	Figure 1		
(B)	Steady, incompressible flow consist of following velocity 06		06
la servición de	components:		
	u=-cx/y,		
	v=c ln(xy)		
	Obtain a relevant stream function for the fluid flow.		