QUES 03:-

A block placed on a rough horizontal surface is pulled by a horizontal force F. Let f be the force applied by the rough surface on the block. Plot a graph of f versus F.

Soin:-3

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The same	- OPT 30U3000	Date 1	
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Y. Comment	Solution :>		
	Rough surface (Coefficient = Us, UK)		
	→ F		
	⇒ let's Analyze the motion: When we apply the Face F, the		
	when we apply		
	Yough sweface will Exect a Oppesing friction force of		
	1100		
	force analysis of F => N=mg		
	4 mg F		
⇒	> Static fruition force range is from 0 to U.N.		
	So as we know the work of friction is to		
10000	oppose the relative motion between between the		
	Surface.		
	So let's the Eget of t as value		
Of f Changes.			
(note N=mg)			
f A			
	Note: > y	bello called in the	
	(Mema) - P Kinetic priction (Mema)		
Static Ass			
Fyiction O (14mg) F			
Graphical analysis is see as the Finesease from 0. f			
	in the contract of the processed from O. f		
	min Change to and take value Equal to F		
	So (Fout = F-f) Stays O; But as the Fleaches		
	Vernet Stirring hours and an		
	constant your of which		
	Enote: > ux < us in real dituol	ion]	
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