



Name :

Roll No. :

Invigilator's Signature :

CS/INT.PBIR (PHY)/SEM-4/PHY-410/2010

2010

**ADVANCED TECHNIQUES IN EXPERIMENTAL
PHYSICS**

Time Allotted : 3 Hours

Full Marks : 100

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

*Write-up on the Experimental Results : 50 and Presentation &
Justifying the Results : 50*

Answer *all* the following questions.

1. Consider the experiment entitled "Structural studies and Magnetic properties of PLD grown permalloy thin films."
 - a) What would be the motivation behind such a study ?
 - b) Discuss the principles on which measurements will be done and the experimental parts that will be required.
 - c) Show some typical experimental results that you obtained from the structural studies and discuss their significance.
 - d) What is special about the magnetic properties of PLD grown films ?

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