MODULE I

INTRODUCTION TO CFD: ASSIGNMENT

I.1 Outline main steps involved in industrial CFD simulation for design analysis of a fluid machine.

I.2 Which discretization scheme(s) --- FDM, FEM or FVM --- would be most appropriate for numerical simulation of a flow problem in a complex domain? Which one of these would be the least appropriate?

I.3 Which would be the easiest discretization method for numerical simulation of a flow problem in a simple rectangular channel?