

Indian Statistical Institute
First Semester Back Paper Examination 2004-2005
B.Math (Hons.) III Year
Complex Analysis

Time: 3 hrs

Total. Marks : 100

1. Let f be an analytic function on a planar domain Ω . Define $F : \Omega \times \Omega \rightarrow \mathbb{C}$ by

$$F(z, w) = \begin{cases} f(z) - f(w) & \text{if } z \neq w \\ f(z) & \text{if } z = w. \end{cases}$$