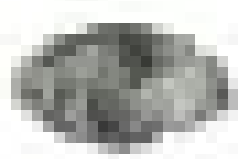
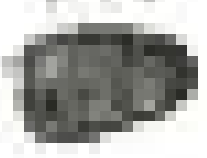
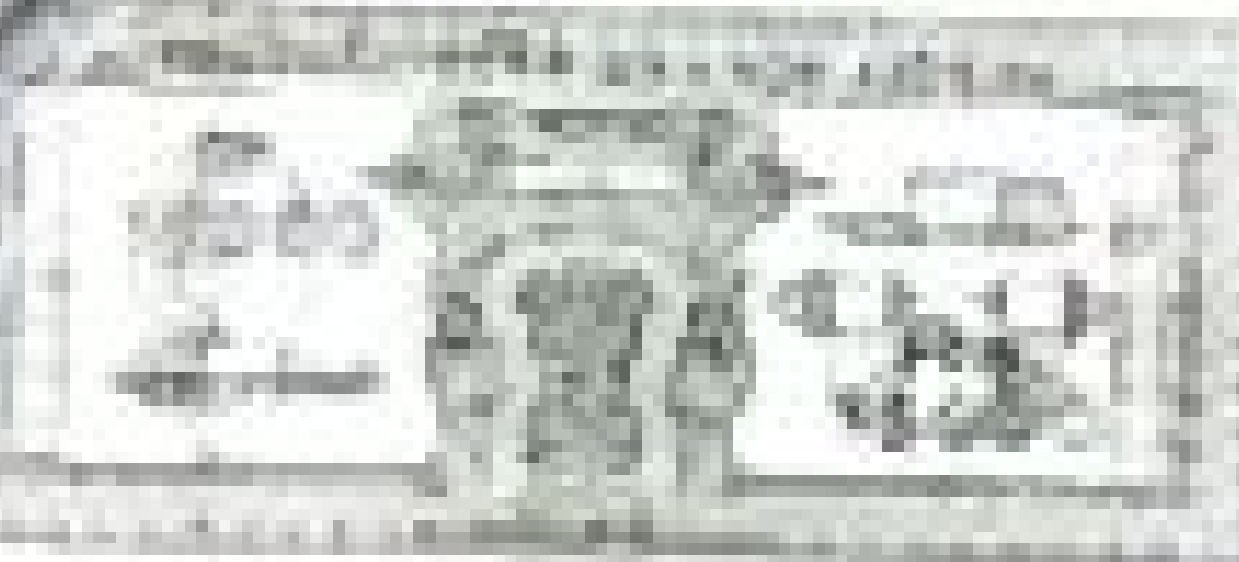




Text block, possibly a title or heading.

Main body of text, consisting of several lines of illegible characters.





THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 354: QUANTUM MECHANICS
PROBLEM SET 10
DUE DATE: NOVEMBER 10, 2011

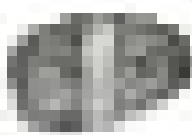
1. A particle of mass m is confined to a one-dimensional infinite potential well of width a . The wave function is given by $\psi(x) = \sqrt{\frac{2}{a}} \sin\left(\frac{n\pi x}{a}\right)$ for $0 < x < a$ and zero elsewhere. Calculate the probability of finding the particle in the region $0 < x < \frac{a}{4}$.



THE HISTORY OF THE UNITED STATES



The history of the United States is a complex and multifaceted story. It begins with the early Native American civilizations, such as the Mayans, Aztecs, and Incas, who thrived in the Americas long before the arrival of European explorers. The discovery of the New World by Christopher Columbus in 1492 marked the beginning of a new era in world history. The United States was founded as a nation of immigrants, and its growth and development have been shaped by the contributions of people from many different backgrounds and cultures. The American Revolution, the Civil War, and the Civil Rights Movement are some of the key events that have defined the nation's history. Today, the United States is a global superpower, and its influence is felt in many parts of the world.



1940

1940

1940

1940

1940

1940

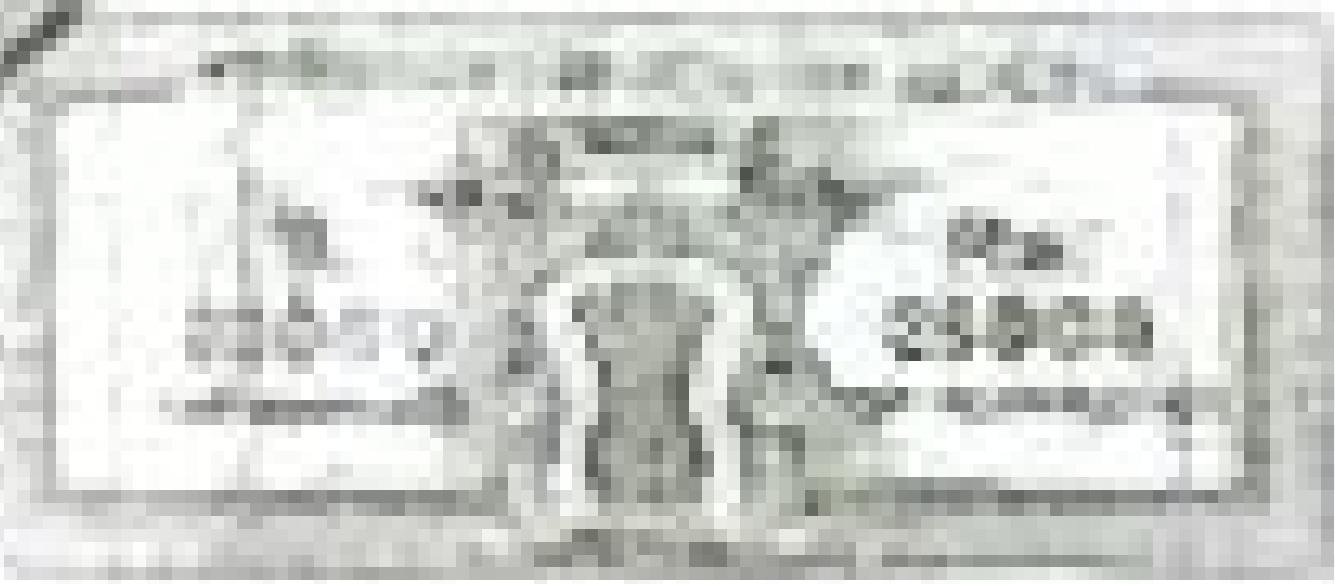
1940

1940



The image above depicts a group of people, likely a family, in a historical or artistic setting. The scene is framed and appears to be a reproduction of a painting or a historical photograph. The figures are arranged in a group, with some standing and some seated, suggesting a formal or significant occasion. The overall quality of the image is low, with significant blurring and loss of detail.

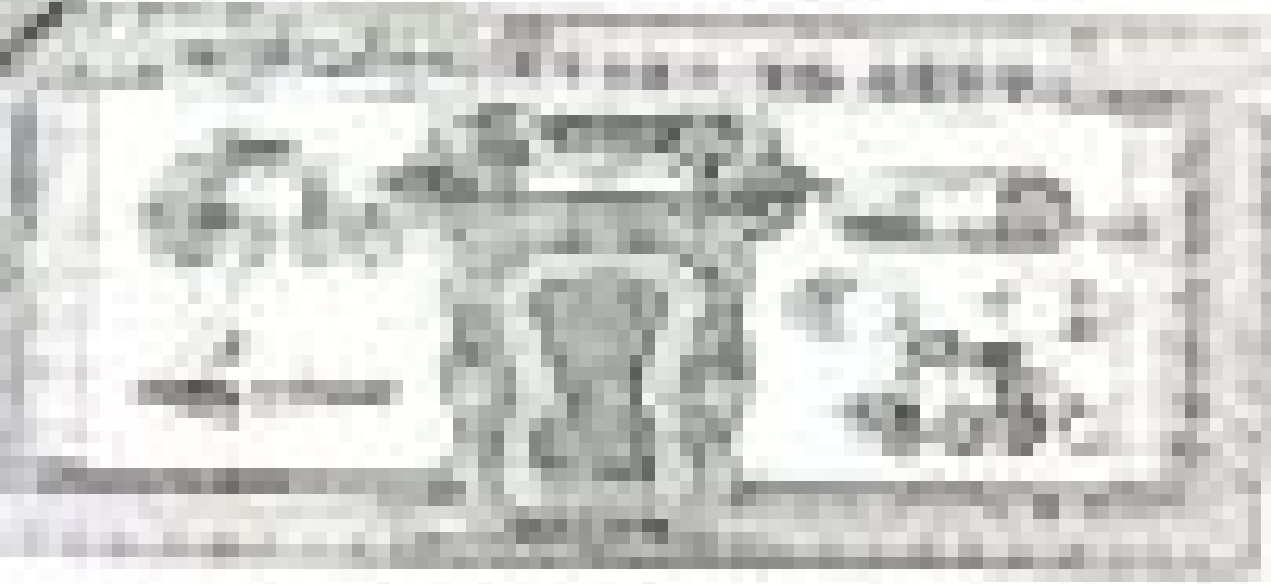




Very faint text at the top of the page, possibly a header or title, which is mostly illegible due to low contrast.

A block of very faint text in the middle of the page, appearing to be a paragraph of a document or report.





Faint, illegible text or a header line located below the large image.

A large block of very faint, illegible text, possibly a paragraph or a list of items, occupying the middle section of the page.



A large area of very faint, illegible text at the bottom of the page, possibly a footer or a continuation of the text above.



Fig. 1. [Illegible text]

[Illegible text]



[Illegible text]

[Illegible text]





FIG. 1. [Illegible text]

+

[Illegible text]

+





THE UNIVERSITY OF CHICAGO
OFFICE OF THE DEAN OF STUDENTS
1100 EAST 58TH STREET
CHICAGO, ILLINOIS 60637
TEL: 773-936-3333
WWW.CHICAGOEDUCATION.ORG

CHICAGO, ILLINOIS
OFFICE OF THE DEAN OF STUDENTS
1100 EAST 58TH STREET
CHICAGO, ILLINOIS 60637
TEL: 773-936-3333
WWW.CHICAGOEDUCATION.ORG



