

आधिकारिक जर्नल

भारत के प्रमुख न्यायाधीशों का आधिकारिक जर्नल

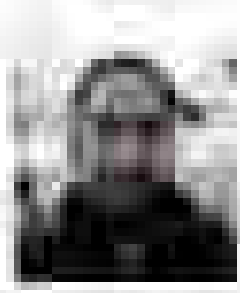
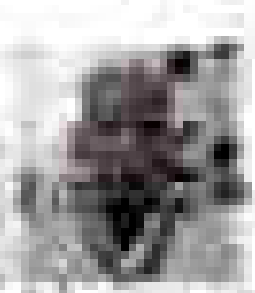
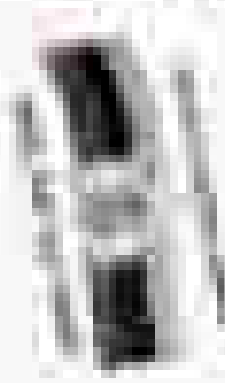
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भारतीय रिजर्व बैंक INDIA NON JUDICIAL

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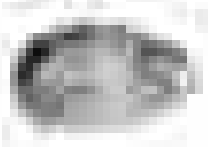
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भारत

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Rs. 10000

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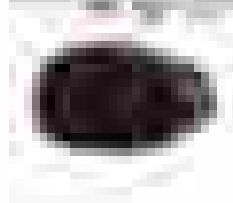
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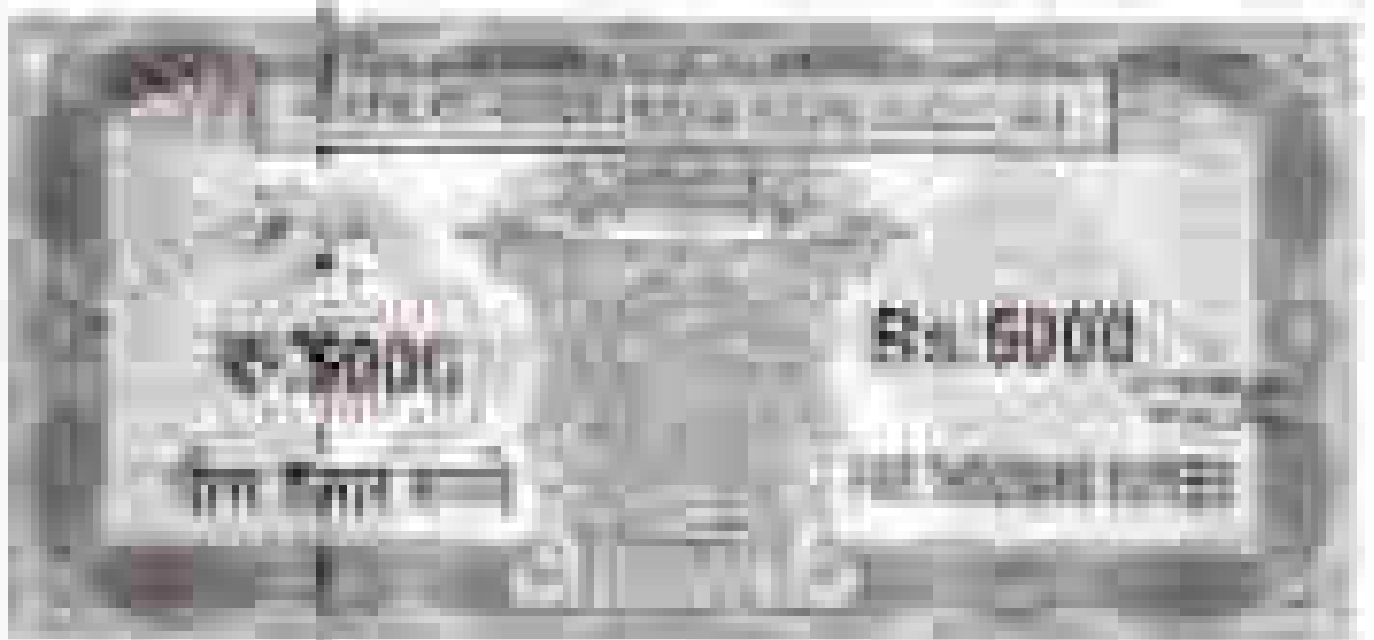
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THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5408 S. UNIVERSITY AVE.
CHICAGO, ILL. 60637
TEL: (773) 835-3100
FAX: (773) 835-3101
WWW: WWW.CHEM.UCHICAGO.EDU



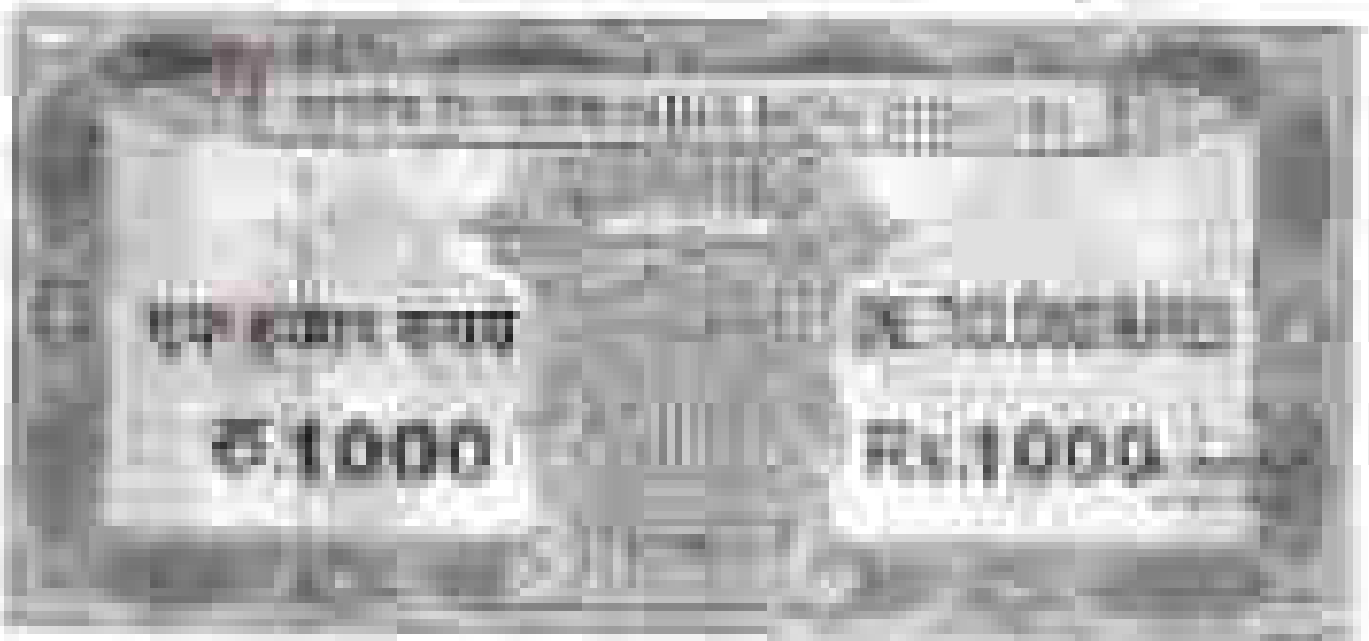


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PHYSICS DEPARTMENT

PHYSICS 311
LECTURE NOTES
BY
[Illegible Name]
[Illegible Title]
[Illegible Date]

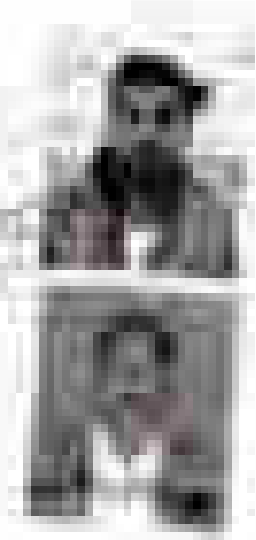
PHYSICS 311
LECTURE NOTES
BY
[Illegible Name]
[Illegible Title]
[Illegible Date]



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भारतीय रिज़र्व बैंक
भारत का मुद्रा प्रणाली का प्रमुख
अंग है। यह बैंक भारत सरकार के
अधीन कार्य करता है।





भारतीय रिजर्व बैंक
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PHYSICS DEPARTMENT

PHYS 439: QUANTUM MECHANICS

PROBLEM SET 10

1. (10 points)

Consider a particle of mass m moving in a one-dimensional potential $V(x)$. The wave function $\psi(x)$ satisfies the time-independent Schrödinger equation

$$-\frac{\hbar^2}{2m} \frac{d^2 \psi}{dx^2} + V(x) \psi = E \psi$$

where E is the energy. Suppose the potential is given by

$$V(x) = \begin{cases} 0 & x < 0 \\ \frac{1}{2} k x^2 & x \geq 0 \end{cases}$$

where k is a constant. The wave function is normalized such that $\int_{-\infty}^{\infty} |\psi(x)|^2 dx = 1$. The probability density $P(x) = |\psi(x)|^2$ is shown in the plot below.



Find the energy E of the particle. Express your answer in terms of \hbar , m , and k .

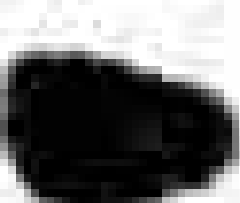
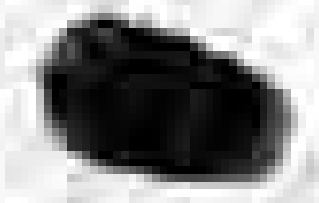


Figure 1: Potential well and particle position.

Figure 2: Probability density plot.

Figure 3: Energy level diagram.

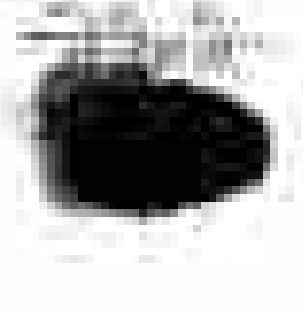
Figure 4: Wave function plot.



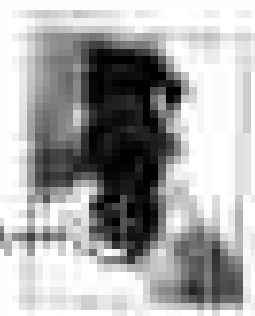
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- (c) ...

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- (a) ...
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1. **Identify the main idea of the passage.**
 The passage discusses the importance of maintaining accurate records in a business setting. It emphasizes that proper record-keeping is essential for legal compliance, financial transparency, and efficient operations. Without accurate records, a business may face legal challenges, financial losses, and operational inefficiencies.



2. **Explain the significance of the data presented in the chart.**
 The chart illustrates the distribution of sales across different product lines over a period of six months. The data shows a steady increase in sales for all product lines, with the most significant growth observed in the 'Electronics' category. This indicates a strong market demand for electronic products and suggests that the company's focus on this sector is yielding positive results.



3. **Summarize the key findings of the study.**
 The study conducted over a 12-month period revealed several key findings. First, there was a clear correlation between customer satisfaction and repeat purchases. Second, the most effective marketing channels were found to be social media and direct email campaigns. Finally, the data suggests that personalized customer service significantly impacts the overall brand perception and loyalty.



QUESTION

1. A company has a fixed cost of \$100,000 and a variable cost of \$5 per unit. The selling price is \$15 per unit. How many units must be sold to break even?

10,000

