

3. Graphs

concn - x axis = diff. concentrations  
y axis = time

0 - at the end  $\rightarrow$  fastest



pH - x axis = pH

y axis = time



temp - x axis = temp

y axis = time

discussion #s - use data from  
data table she  
gave us

Discussion

4.3A - pg. 100 #1, 2

4.3B - pg. 103 work

no # question  $\rightarrow$  disc. ? is not  
numbered

4.3C - pg. 107 #1, 2

Conclusion

Summarize the results.

Explain how changes in  
environment affect  
reaction rate of an enzyme.

- Be specific - concn, pH,  
temp

2. Prepare the experimental test tubes (test-tube set II):

- Number a second set (set II) of five standard test tubes 1 through 5.
- Beginning with tube 5 of set I, transfer 2 mL of this enzyme dilution into tube 5 of set II. Use a 5-mL pipette for the transfer. Rinse the pipette in distilled water, and repeat the procedure for tubes 4, 3, 2, and 1, transferring 2 mL of tube 4 (set I) into tube 4 (set II), and so forth. After these transfers have been carried out, test-tube set I will no longer be used and can be set aside.
- Add 2 mL of pH 6.8 buffer solution to each of the tubes in the second set. Mix by rolling the tubes between your hands. Set these tubes aside.
- Add 1 or 2 drops of  $I_2KI$  to each compartment of four rows of a test plate. You will use a separate row for each concentration of amylase.
- Using the second set of tubes, proceed with the tests beginning with tube 5.
  - Using a clean 1-mL pipette, add 1 mL of the 1% starch solution to tube 5 and mix by rolling the tube between your hands. One team member should immediately record the time. This is time 0.
  - Quickly remove 1 drop of the mixture with a disposable pasteur pipette, and add it to a drop of  $I_2KI$  in the first compartment on the test plate (time 0).



Remember, when the enzyme and substrate are together, the reaction has begun!

- Sample the reaction mixture at 10-second intervals, each time using a new compartment of the test plate. Continue until a blue color is no longer produced and the  $I_2KI$  solution remains yellow-amber (indicating the digestion of all the starch). Record the time required for the digestion of the starch in Table 4.6.
- Repeat steps 1 through 4 for the other four concentrations (tubes 4, 3, 2, and 1 of set II).

- Finish recording your findings in the Results section, and state your conclusions in the Discussion section.

Results

- Complete Table 4.6 as you determine rates of digestion (time of starch disappearance) in different enzyme concentrations.

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the 'EduGorilla Prep Experts' text.

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Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24

**SECTION A EXPERIMENTS**

- 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current
- 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material
- 3 To verify the laws of combination Series Parallel of resistance using ammeter bridge
- 4 To compare the e m f of two given primary cells using potentiometer
- 5 To determine the internal resistance of a given primary cell e g Leclanche cell using potentiometer
- 6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit
- 7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same
- 7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same
- 8 To find the frequency of AC mains with a sonometer and horse shoe magnet

**SECTION B EXPERIMENTS**

- 1 To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length
- 2 To find the focal length of a convex lens by plotting graph between  $u$  and  $v$  or  $1/u$  and  $1/v$
- 3 To find the focal length of a convex mirror using a convex lens
- 4 To find the focal length of a concave lens using a convex lens
- 5 To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation
- 6 To determine refractive index of a glass slab using a travelling microscope
- 7 To find the refractive index of a liquid by using a convex lens and a plane mirror
- 8 To draw I V characteristics curve of a p n junction in forward bias and reverse bias
- 9 To draw the characteristics curve of a zener diode and to determine its reverse break down voltage
- 10 To study the characteristics of a common emitter n p n or p n p transistor and to find out the values of current and voltage gains

**SECTION A ACTIVITIES**

- 1 To measure the resistance and impedance of an inductor with or without iron core
- 2 To measure resistance voltage AC DC current AC and check continuity of given

circuit using multimeter 3 To assemble a household circuit comprising of three bulbs three on off switches a fuse and a power source 4 To assemble the components of a given electrical circuit 5 To study the variation in potential drop with length of a wire for a steady current 6 To draw the diagram of a given open circuit comprising atleast a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram

**SECTION B ACTIVITIES**

- 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor
- 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items
- 3 Use a multimeter to i identify the transistor ii distinguish between n p n and p n p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components e g diode transistor or IC is in working order
- 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- 5 To observe polarisation of light using two polaroids
- 6 To observe diffraction of light due to a thin slit
- 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using candle and a screen for different distance of the candle from the lens mirror
- 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

**SUGGESTED INVESTIGATORY PROJECT**

- 1 To Study Various factors on which the Internal Resistance EMF of a cell depends
- 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R
- 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle
- 4 To design an appropriate logic gate combination for a given truth table
- 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer
- 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids
- 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law
- 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an AC source of adjustable frequency
- 9 To study the earth's magnetic field using a tangent galvanometer

**APPENDIX** Some Important Tables of Physical Constants

Logarithmic and other Tables

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    - Chapter 4: Viva Second Edition Lab Manual Answers in Specific Contexts
    - Chapter 5: Conclusion
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## **Table of Contents Viva Second Edition Lab Manual Answers**

1. Understanding the eBook Viva Second Edition Lab Manual Answers
  - The Rise of Digital Reading Viva Second Edition Lab Manual Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Viva Second Edition Lab Manual Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Viva Second Edition Lab Manual Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Viva Second Edition Lab Manual Answers
  - Personalized Recommendations
  - Viva Second Edition Lab Manual Answers User Reviews and Ratings
  - Viva Second Edition Lab Manual Answers and Bestseller Lists
5. Accessing Viva Second Edition Lab Manual Answers Free and Paid eBooks
  - Viva Second Edition Lab Manual Answers Public Domain eBooks
  - Viva Second Edition Lab Manual Answers eBook Subscription Services
  - Viva Second Edition Lab Manual Answers Budget-Friendly Options
6. Navigating Viva Second Edition Lab Manual Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Viva Second Edition Lab Manual Answers Compatibility with Devices
  - Viva Second Edition Lab Manual Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Viva Second Edition Lab Manual Answers
  - Highlighting and Note-Taking Viva Second Edition Lab Manual Answers
  - Interactive Elements Viva Second Edition Lab Manual Answers



8. Staying Engaged with Viva Second Edition Lab Manual Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Viva Second Edition Lab Manual Answers
9. Balancing eBooks and Physical Books Viva Second Edition Lab Manual Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Viva Second Edition Lab Manual Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Viva Second Edition Lab Manual Answers
  - Setting Reading Goals Viva Second Edition Lab Manual Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Viva Second Edition Lab Manual Answers
  - Fact-Checking eBook Content of Viva Second Edition Lab Manual Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
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