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Charts from Experimental and Pharmaceutical Data

Experiment 7 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To choose and label a chart appropriate to the data.

Principle

A chart should preserve the meaning of the measured variables. XY scatter charts use numerical x values; category charts organise named groups. Axes, units and the plotted statistic must be clear.

Requirements

- Fictional time-series data and three-category inventory data.
- Spreadsheet application and a chart-review checklist.

Procedure

1. Check data

Arrange numeric x/y columns with units and review missing values. Do not replace an unmeasured value with zero without justification.

2. Choose type

Use XY scatter for a numeric relationship such as time against concentration; use a bar/column chart for named categories.

3. Create

Select the exact data range and insert the chosen chart. Check whether the first row/column was interpreted correctly.

4. Label

Add a specific title and both axis labels with units. Explain series and any error bars.

5. Inspect

Check scale, point order and legend. Avoid decorative 3D effects or a truncated axis that misleads the comparison.

6. Export

Save and verify the chart in the report/PDF at its intended display size.

Fundamentals of Computer Operations

Observations and Record

Time (min)	Constructed concentration (mg/L)
0	0
5	2
10	4
20	5

Worked Example

The numbers below are illustrative; enter your own observations in the record.

- The time gaps are 5, 5 and 10 minutes. An XY chart places 20 min at the appropriate numerical spacing; a category line chart may space all four labels equally.

Result

Save the completed practice work with a clear name, reopen it to verify the result and record the checks performed. Submit only through the instructor-approved destination.

Precautions

- Use dummy academic data and a dedicated practice folder; do not edit production pharmacy records or use real patient information.
- Check the actual application/version and local settings. Menu names and formula separators can vary between programs.
- Keep an editable copy and verify the saved/exported file rather than relying only on the on-screen appearance.

Viva Questions and Answers

1. When is XY scatter preferable?

When x values are numerical and their spacing matters.

2. Why label units?

The numerical value alone does not identify the measured quantity.

3. What should error bars represent?

A stated statistic such as standard deviation, not an unexplained decoration.

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