



CRAWFORD UNIVERSITY
COLLEGE OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF PHYSICAL AND EARTH SCIENCES
INDUSTRIAL CHEMISTRY PROGRAMME
HARMATTAN SEMESTER EXAMINATION 2016/2017 SESSION

COURSE CODE: ICH 441

COURSE TITLE: INDUSTRIAL CHEMISTRY LABORATORY (11) UNIT 1

TIME ALLOWED: 1 HOUR

DATE: February, 2017

INSTRUCTION: Answer all Questions

1. Differentiate between graduation and calibration in measuring instruments.
2. What is Accuracy in measurement? Differentiate accuracy with precision.
3. The following measurement were taken from a linear measurement:

No	Value (cm)
1	33.4
2	34.2
3	33.6
4	33.8
5	34.1

If the actual length of a thread is 34.5 cm, what is

- (a) Range
 - (b) Mean
 - (c) The standard deviation
4. Why are some reagents kept in brown or dark coloured reagent bottles?
 5. What are three (3) major implications of weighing a hot solid sample?
 6. On what basis do precipitates form in chemical reactions? How then can it be used as a separation technique?
 7. What is reflux? Why is reflux often necessary in sample preparation?
 8. A pipette is labeled "blow-out" in the laboratory. What does that mean?
 9. Itemize the necessary step taken to separate a mixture of salt, sand and iron filings.
 - 10 List out five (5) safety measures in the laboratory.

