

**Dej/Wondirad Preparatory School: Physics UEE compiled on Measurement
and Practical work (2003-2011)**

1. Which of the following experiment errors can be reduced by taking repeated measurements? (UEE:2007)
A. Parallax errors. C. random errors
B. Systematic errors. D. Zero errors
2. A teacher gave a student a book whose thickness is 4.3cm, and instructed him to measure the thickness of the book with vernier calipers. The student took four measurements. The average and standard deviation of the measurements were 4.33cm and 0.04cm, respectively. Which one of the following is the uncertainty in the student's measurement? :(UEE:2007)
A. 0.03cm. B. 0.04cm C. 0.035cm. D. 0.3cm
3. Which statement is WRONG about units and dimensions? (UEE: 2008).
A. Two quantities can have the same units but different dimensions.
B. Two quantities can have the same dimensions but different units.
C. It is always possible to add two numbers that have the same units.
D. There are quantities that have no unit and dimension.
4. If a precision of surveyor measured a distance of 500 meters (between two points in a village) using a meter that has centimeter division on it, then what is the measurement result?(UEE: 2009). A.500m B. 500.0m C. 500.00. D. 500.000m
5. From the figures given below, which one of them shows precise but NOT accurate measurements? T represents the true value.(UEE:2009)

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6. Which of the following statement is correct about errors in measurement?(UEE:2010)
- A. Experimental error is the same as a mistake
 - B. Errors occur in every scientific investigation.
 - C. Errors make measurement values same as accepted value.
 - D. Errors can be avoided by using modern measuring instruments.
7. What can be concluded when the number of significant figures increases? (UEE: 2010)
- A. True reading increases.
 - B. Uncertainty increases.
 - C. Precision increases.
 - D. Accuracy increases.
8. A grade 11 physics teacher ordered four of his students to measure the length of a class room. He provided them the following length measuring instruments. The instruments are meter rule with millimeter division, vernier calipers, micrometer screw gauge and meter tape with centimeter scale, but its zero reading is not visible. Which one of these instruments is appropriate for the task? (UEE; 2011).
- A. Meter rule.
 - B. Meter tape.
 - C. Vernier calipers..
 - D. Micrometer screw gauge.
9. Which part of a scientific report discusses the accuracy of measurements taken? (UEE; 2011)
- A. Aim.
 - B. Theory.
 - C. Methods.
 - D. Results

THE END