- D) compounds
- E) elements

| 6) The volume of a regular cylinder is $V = \pi r^2 h$. Using the value 3.1416 for the constant π , the volume | | | | | | | |
|---|-------------------------|-----------------------|----------------------|--------------|--|--|--|
| (cm ³) of a cylind significant figure | er of radius 2.34 cm an | d height 19.91 cm exp | ressed to the correc | ct number of | | | |
| A) 343 | B) 342.495 | C) 342.49471 | D) 342.49 | E) 342 | | | |

| 7) Which one of the following is <u>not</u> an intensive property? | | | | | | | |
|---|----------------------|-----------------------|------------|-------------|-----|--|--|
| A) mass | | | | | | | |
| B) density | | | | | | | |
| C) temperature | | | | | | | |
| D) melting point | | | | | | | |
| E) boiling point | | | | | | | |
| 8) In which one of the following numbers are <u>all</u> of the zeros significant? | | | | | | | |
| A) 100.090090 | | | | | | | |
| B) 0.143290 | | | | | | | |
| C) 00.0030020 | | | | | | | |
| D) 0.05843 | | | | | | | |
| E) 0.1000 | | | | | | | |
| 9) Express the temperature, 422.35 K, in degrees Celsius. | | | | | | | |
| A) 22.78°C | B) 149.20°C | C) 792.23°C | D) 50.89°C | E) 695.50°C | | | |
| 10) Accuracy refers to ₋ | · | | | | 10) | | |
| A) how close a m | neasured number is t | o the calculated valu | ie | | | | |
| B) how close a m | neasured number is t | o infinity | | | | | |
| C) how close a measured number is to other measured numbers | | | | | | | |
| D) how close a measured number is to the true value | | | | | | | |
| E) how close a m | neasured number is t | o zero | | | | | |
| 11) Which of the following is an illustration of the law of constant composition? | | | | | | | |
| A) Water is a compound. | | | | | | | |
| B) Water and salt have different boiling points. | | | | | | | |
| C) Water is 11% hydrogen and 89% oxygen by mass. | | | | | | | |
| D) Water can be separated into other substances by a chemical process. | | | | | | | |
| E) Water boils at | 100°C at 1 atm pres | sure. | | | | | |