PART I: COMPLETION: Complete each sentence with the proper response. Place your answer on the blank in the right column.

1. The term “elevation” usually refers to the exterior elevations. Interior elevations are generally referred to as ________.

2. Two methods of elevation identification are acceptable. The first method uses front, rear, right side, and left side. The second method uses north, south, east, and west. The ________ (first/second) method is more widely used.

3. The grade line is a very important feature of any exterior elevation. All parts of the structure below this line are shown as ________ lines.

4. The floor area of an attached garage should be at least ________ in. lower than the interior floor.

5. The line symbol used to show the location of the finished floor and ceiling on an elevation is usually a ________ line.

6. An exterior elevation is generated from two drawings—the floor plan and ________ drawing.

7. The fractional pitch or slope triangle may be used to illustrate the roof pitch. However, the ________ is the preferred method.

8. Notes typically found on an elevation drawing include grade information, exterior wall material notes, roof covering material details, fascia material, and ________ material.

9. The usual scale of a residential exterior elevation is ________.

10. The exterior walls are drawn on the elevation using the ________ plan as a guide.

11. The ________ lines of walls, windows and doors, etc. are drawn in after the vertical heights have been drawn.

12. An excellent reference for information on features such as trim, window muntins, window wells, gable ventilators, and railings is ________.

13. After examining the elevation drawing carefully for completeness and accuracy, the title block and ________ are added.
PART II: SHORT ANSWER/LISTING: Provide brief answers to the following questions.

1. An elevation is usually drawn for each side of the dwelling. What purpose do these elevations serve?
   A. ____________________________________________________________
   B. ____________________________________________________________

2. There are a number of features which should be indicated on an elevation. The primary feature is identification of the side of the house. Name four other features.
   A. ____________________________________________________________
   B. ____________________________________________________________
   C. ____________________________________________________________
   D. ____________________________________________________________
   ALSO: _________________________________________________________

3. Two methods of measuring floor to ceiling height are: finished floor-to-finished ceiling distance, and the construction dimension. Explain both methods and indicate the one carpenters prefer.
   _____________________________________________________________
   _____________________________________________________________
   _____________________________________________________________
   _____________________________________________________________
   _____________________________________________________________

4. Most building codes specify that the top of the foundation wall be at least 8 in. above the grade. Why is this requirement important?
   _____________________________________________________________

5. The placement of windows on an elevation is obtained from the floor plan. How is the vertical height determined?
   _____________________________________________________________
   _____________________________________________________________

6. On an elevation, gable ends are drawn to indicate the height of the roof. If the dwelling has more than one roof height, which is drawn first (highest/lowest)?
   _____________________________________________________________
7. The following steps should be used to draw a gable end. Place them in the proper order by labeling them A through E.
   ______ Lay out the desired slope from the top inside corner of the plate.
   ______ Measure the amount of desired overhang, include the thickness of the roof sheathing.
   ______ Repeat the procedure for the other side of the roof.
   ______ Locate the top of the upper wall plate and center line of the proposed ridge location.
   ______ Measure the width of the rafter perpendicular to the bottom edge and draw the top edge parallel to the bottom edge of the rafter.

8. Vertical dimensions are generally placed on the elevation drawing. List four vertical dimensions which should be included.

   A. __________________________________________________________
   B. __________________________________________________________
   C. __________________________________________________________
   D. __________________________________________________________

   ALSO: ________________________________________________________

9. The first lines to appear on the elevation drawing are vertical heights of the grade, footings, doors and windows, eaves, and roof. What type of lines are used in this step?

   ____________________________________________________________

10. At what point should the dimensions, notes, and symbols be added to the elevation?

   ____________________________________________________________

   ____________________________________________________________

   ____________________________________________________________

PART III: MULTIPLE CHOICE: Select the best answer and place its letter in the blank at right.

1. The current grade line for each outside wall may be obtained from the:
   A. Site or floor plan.
   B. Plot or site plan.
   C. Floor or plot plan.
   D. Foundation plan.

2. Ceiling heights of basements should be at least 6'-2" high, while 8'-0" is preferred. Garages must have a ceiling height of at least:
   A. 8'-0".
   B. 8'-6".
   C. 9'-0".
   D. 9'-6".

3. ________ lines are used on the elevation to indicate visible wall corners.
   A. Hidden.
   B. Construction.
   C. Object.
   D. Guide.
4. Window details should be shown on the elevation. The swing, plus the ________, should be shown on hinged windows.
   A. Brick mold or window trim.
   B. Glass elevation symbol.
   C. Identification symbols for windows and doors.
   D. All of the above.

5. A number of symbols are normally shown on an elevation. As a rule, the front elevation shows more than the other elevations. From the list of symbols below, which symbol is ALWAYS placed on an elevation drawing?
   A. Exterior wall covering symbol.
   B. Roof pitch symbol.
   C. Window swing symbol.
   D. Cutting plane symbol.

6. The roof elements and wall height are important features of the elevation drawing. The ________ supplies the measurements for these two features.
   A. Floor plan.
   B. Section drawing.
   C. Foundation plan.
   D. Plot plan.

7. Any changes to be made in the elevation should be done:
   A. After the dimensions, notes, and symbols have been added.
   B. At any time.
   C. Before the features have been darkened.
   D. After the vertical and horizontal lines have been drawn and the features have been darkened.