CHAPTER 1 TEST

Fill in the blanks below with the proper word or short statement as needed to complete the sentence or answer the question correctly.

1. **Blueprint** is an old term that is generally used in the construction business when referring to prints.
2. The reproduction methods commonly used today are the **photocopy** and **prints created from a computer file.**
3. Define and give another name for architectural drawings. **Architectural drawings, known as plans, are prepared by professional architects or designers for any home or commercial building before the actual construction can begin.**
4. Define prints. **Prints are the reproduction of architectural drawings.**
5. State at least three advantages for photocopying architectural drawings. **1. There is no need for coated materials; 2. The possible hazards of ammonia; 3. Can copy from any type of original on most types of copy material.**
6. List at least three standard drawing sheet sizes. **8–1/2 × 11; 9 × 12; 11 × 17; 12 × 18; 17 × 22; 18 × 24; 22 ×34; 24 × 36.**
7. A system of numbers along the top and bottom margins and letters along the left and right margins used to locate items on the drawing is called **zoning.**
8. List at least four items represented by dashed lines on an architectural drawing. **1. Beam above; 2. Header; 3. Upper kitchen cabinets; 4. Undercounter dishwasher; 5. Electrical circuit run.**
9. Specific notes are also known as **local notes.**
10. Define specific notes. **These are notes placed on a drawing that relate to a specific application or describe a specific feature.**
11. Define general notes. **Information that applies to the entire drawing.**
12. Define schedules. **Charts of information used to describe items such as doors, windows, appliances, fixtures, hardware, concrete reinforcing, and finishes.**
13. Briefly describe in your own words five general guidelines you can use to find information on an architectural drawing:

    Rule 1. **Scan the entire drawing while looking at the general layout.**

Rule 2. **Look at the title block to find general information that is related to the project.**

Rule 3. **Look at the drawing on the print to get a quick understanding of what is included.**

Rule 4. **Quickly read the general notes to get a good understanding of the construction specifications and other information that relates to the entire drawing.**

Rule 5. **Take more time to look for the specific information you need.**

14. Define hard copy. **A hard copy is actually any printout of a document that has been created on a computer. A printer or plotter is a piece of equipment that is connected to the computer for the purpose of making a hard copy.**
15. Define scales. **Scales are measuring instruments used to draw object at full, reduced, or enlarged sizes. The notation for the drawing reduction or enlargement is also referred to as the scale of the drawing.**
16. Why is it inappropriate for you to actually measure prints using a scale instrument? **It is inappropriate for you to actually measure prints using a scale instrument. This is referred to as *scaling the print*. All of the necessary information needs to be found without the need to scale the print. Prints should not be scaled because of possible inaccuracies in the drawing, and prints can slightly shrink or enlarge the information you need in the form of drawing, dimensions, and notes.**
17. Identify the scale that is used to draw floor plans for most residential structures. **1/4" = 1'–0"**.
18. List at least two types of drawings that are created using a civil engineer's scale. **Site plans, maps, subdivision plats, and land documents.**
19. Give two reasons why a print might need to be folded. **To mail or file in a standard file cabinet.**
20. Why is print folding done in a pattern of bends much like a road map? **This puts the title block and sheet identification on the front and aids in the folding and unfolding the prints.**

CHAPTER 1 PROBLEMS

PROBLEM 1.1

Given the title block on this page, fill in the blanks identifying the type of information requested at each location.

1. **Sheet number/number of sheets in complete set; for example, 2/8.**
2. **Architects' name and address.**
3. **Date drawing plotted.**
4. **Revision information.**
5. **File project number.**
6. **Drawing titles including project and/or owner's name.**
7. **Job project number.**
8. **Title block identification.**

PROBLEM 1.2

Answer the following questions as you read the partial floor plan given on page 23:

1. Give the sizes of the following rooms:

   Parlor **13'–0" × 13'–4" ±**

   Dining **10'–0" × 13'–4"**

2. Give the complete word or words for each of the following abbreviations while referring to list of abbreviations in the back of the book as needed:

   AL **Aluminum**

   BM **Beam**

   CONC **Concrete**

   FLR **Floor**

   JST **Joists**

   MIN **Minimum**

   OC **On center**

   SH **Single hung**

   TEMP **Tempered**

   W/ **With**

3. Give the size and spacing of the joists over the parlor. **Floor joists 16" o.c.**.

4. Give the specifications for the material to be used under the 4” concrete slab. **4" min. granular fill**
5. Is the note described in question number 4 a specific or a general note? **Specific note.**
6. Give the dimension from the front face of the bay window in the parlor to the center of the two 2 × 6s. **10'–0" (8'–0" + 2'–0")**

PROBLEM 1.3

Answer the following questions as you read the partial floor plan on page 24:

1. Are the notes in the box at the left of the floor plan specific or general notes? **General notes.**
2. What is the size of the garage? **19'–8" × 20'–8" +**
3. Does the floor plan size given for the garage include the shop? **No**
4. What is the dimension from the front face of the garage to the girder truss? **2'–10"**
5. Give the specifications for the construction members used in the ceiling of the garage between the front face of the garage and the girder truss. **Manufactured trusses @ 24" on center.**
6. Give the specifications for the construction members used in the ceiling of the garage from the girder truss to the back wall of the garage. **Manufactured trusses @ 24” on center.**
7. Give the specifications for all the exterior windows and doors. **All exterior windows are to be double–glazed and all exterior doors are to be solid core with weatherstripping.**
8. Give the specifications for all bathroom and utility room fans. **Bathrooms and utility rooms are to be vented to the outside with a minimum of 30 CFM fan.**
9. Give the specifications provided for the furnace and hot–water heater. **“RUUD” UGLC–OTEC 80% plus furnace and gas water heater.**

10. Give the complete word or words for each of the following abbreviations or symbols:

SQ	**Square**
FT	**Feet**
CFM	**Cubic feel per minute**
@	**At**
%	**Percent**

PROBLEM 1.4

Answer the following questions as you read the partial floor plan on page 25:

1. What is the purpose of the letter inside the circles located by the door symbols? **These letters key the specific door to the door schedule.**
2. What is the purpose of the number inside the hexagons located by the window symbols? **These numbers key the specific windows to the window schedule**.
3. Give the quantity, size, and description of the G doors. **One 4'–0" × 6'–8" hollow core 6-panel bi-pass.**
4. Give the quantity, size, and description of the three windows. **Two 2'–0" × 6'–0" aluminum single hung.**