

UNIVERSITY of NOTRE DAME  
School of Architecture

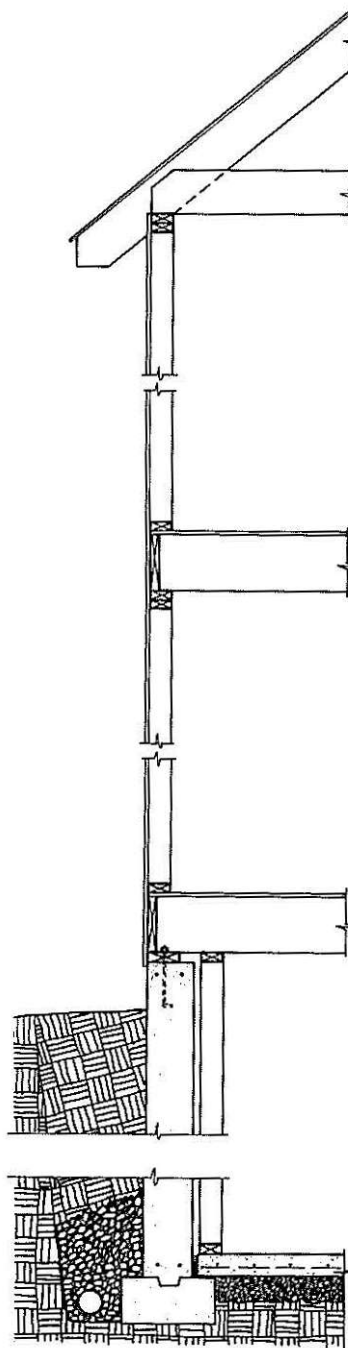
**BUILDING TECHNOLOGY I / ARCH 20411**

**DUE: Tuesday, November 12 at 12:35 pm**

*This quiz is to be completed individually. Please see [honorcode.nd.edu](http://honorcode.nd.edu) for the University's explicit expectations regarding personal academic behavior.*

1. Wood light frame construction was the first uniquely \_\_\_\_\_ building system.
  - a. Combustible
  - b. Simple
  - c. American
  - d. Northern European
  
2. The advent of wood light frame construction was accelerated by two technological breakthroughs in the early 19<sup>th</sup> century. They were:
  - 1.
  - 2.
  
3. The \_\_\_\_\_ frame was the earliest wood framing system to be constructed exclusively of slender, closely spaced wooden members.
  
4. TRUE or FALSE: The only wood light framing system in use today is the Platform frame.
  
5. Describe the primary difference(s) between the two traditional wood light framing systems:
  
  
6. List the two primary purposes for wall sheathing used in wood light frame construction:
  - 1.
  - 2.
  
7. Standard joist spacing is 16 or 24 inches o.c. What does the designation "o. c." mean?
  
  
8. If a roof rises 10" for every 12" of run, describe the pitch of the roof using the customary symbol and designation:

9. From the following list, select the strategy that is NOT an advanced framing technique used to optimize lumber usage:
- Minimize the use of redundant or structurally unnecessary wood members
  - Design to a 24" module
  - Utilize cripple studs in lieu of wall studs
  - Utilize more efficient blocking techniques
  - Eliminate headers over openings in non-bearing walls
10. Label the parts using the **list of terms below** (some may be used more than once or not at all):



Exterior Sheathing  
 Rafter  
 Sole Plate  
 Protective Slope  
 Joist  
 Ground Slab  
 Wall Stud  
 Top Plate  
 Roof Pitch  
 Bottom Plate  
 Wall Type Foundation  
 Bird's Mouth Cut  
 Rim Joist  
 Footing  
 Top of Grade  
 Sill Plate  
 Perimeter Drain  
 Sheathing  
 Hold Down Connection  
 Granular Substrate