

## Final Exam for That Dangerous Damp

- WBDG is an acronym for \_\_\_\_\_.
  - Western Building Design Guild
  - Whole Building Design Guide
  - Water proofing Barrier Designations Guidelines
  - Worldwide Barometric Delineation Guild
- Prolonged exposure to water, makes building components hospitable to \_\_\_\_\_.
  - Ants, weevils, and rodents
  - Mold, heat, and sprouts
  - Bacteria, ants, and mold
  - Strand orientation, security breaches, and termites
- Invading moisture destroys concrete by \_\_\_\_\_.
  - Depositing sub-surface salts
  - Leaching cement out of the mixture
  - Creating water stains that cannot be removed
  - Redistributing soil beneath
- Estimated medical costs in the U.S., for the treatment of asthma related illness, is estimated to be in the range of \_\_\_\_\_.
  - 100-200 million
  - 3-4 billion
  - 400-500 thousand
  - 28 dollars per person
- The decision to use building materials that do not accept or hold moisture is \_\_\_\_\_.
  - Generally requested by the building owner
  - Mandated by most building codes
  - A decision with severe financial consequences
  - Made during the design process
- Mold is also sometimes called \_\_\_\_\_.
  - Mildew
  - Shrooms
  - Wart-root
  - Scale
- The \_\_\_\_\_ is the rate at which all indoor air, is completely replaced by an equal amount of outside air.
  - ARF (Air replacement Factor)
  - Diffusion Factor
  - Infiltration Gain (IG)
  - Air Exchange Rate
- The decision to use building materials that do not accept or hold moisture is \_\_\_\_\_.
  - Generally requested by the building owner
  - Mandated by most building codes
  - A decision with severe financial consequences
  - Made during the design process
- When water damage is discovered immediately, it will still be very hard to salvage water damaged materials that are \_\_\_\_\_.
  - Metallic
  - Porous
  - Hardwood
  - Masonry
- The source of radon, rising through the soil, is \_\_\_\_\_.
  - Decaying vegetation
  - Gasses from magma far below the surface
  - An indication of cave systems below
  - Decaying uranium
- Humidity laden air will always flow from \_\_\_\_\_.
  - Warmer areas of lower pressure, to cooler areas of high pressure
  - Warmer areas of high pressure, to cooler areas of lower pressure
  - Cooler areas of high pressure, to warmer areas of lower pressure
  - Cooler areas of lower pressure, to warmer areas of high pressure

12. What is the primary cause of indoor air quality problems?
- A. Sources that tend to release particles or gasses, into the airstream
  - B. Inadequate ventilation
  - C. Not enough outside fresh air is being brought into the building
  - D. Not enough polluted air is being removed from the building
13. All electrical wiring, fixtures, and outlets are considered shock hazards and should be checked and cleared by which of the following?
- A. A qualified inspector
  - B. An electrician
  - C. Either A or B
  - D. The home owner
14. Upholstered furniture has been damaged by water that came from steam system leaks or drinking water should be dried within \_\_\_\_\_ hours and monitored in the future for fungal growth or odor.
- A. 24
  - B. 48
  - C. 60
  - D. 72
15. The water source needs to be isolated and repairs made immediately, to prevent further intrusion. If wet materials cannot be dried within \_\_\_\_\_ hours of exposure, they need to be removed.
- A. 24
  - B. 48
  - C. 72
  - D. 96
16. Damaged sheetrock needs to be removed up to at least \_\_\_\_\_ above the damaged areas.
- A. 6 inches
  - B. 12 inches
  - C. 18 inches
  - D. 24 inches
17. If drywall has been damaged by steam, which of the following steps should be taken?
- A. Dry/ventilate, reuse, and monitor
  - B. Dry/ventilate then test for microbial growth
  - C. Remove and discard under controlled conditions
  - D. Remove and discard with minimum controls
18. Which of the following would be a reason for concern during a visual inspection of the exterior?
- A. Soil Settlement
  - B. Pooled water near the building
  - C. Both a and b
  - D. Sloped walkways
19. \_\_\_\_\_ in gutters often indicate deterioration of the roofing, to which they were once bonded.
- A. Gravel
  - B. Granules
  - C. Debris
  - D. Moss
20. Regarding moisture intrusion, maintenance of each area of concern will involve which of the following?
- A. Regular inspections
  - B. Lubrication, cleaning and repairs
  - C. Documentation of problems and responses
  - D. All of the above
21. Air can move in and out of buildings by which of the following means?
- A. Infiltration
  - B. Natural ventilation
  - C. Mechanical ventilation
  - D. All of the Above
22. \_\_\_\_\_ is defined as: Any material, combination of materials or manufactured assemblies, intended by design, to control the movement of air across or through an exterior wall system or assembly.
- A. Air barrier
  - B. Air handler
  - C. Air retarder
  - D. Alligatoring

23. If a ceiling tile has been damaged by water contaminated with sewage, which of the following steps should be taken first?
- A. Remove and discard under controlled conditions
  - B. Air dry and reuse
  - C. Remove and discard with no controls
  - D. None of the above
24. There are thousands of species (often quantified as between 50,000 and 250,000) of mold, with more than \_\_\_\_\_ different kinds of molds found in homes and buildings in the United States.
- A. 5,000
  - B. 3,000
  - C. 1,000
  - D. 100,000
25. Systems that use \_\_\_\_\_, to remove rising radon from spaces below the home are more effective in reducing radon levels and will only slightly increase electric bills.
- A. Fans
  - B. Heated Air
  - C. Conditioned Air
  - D. Suction