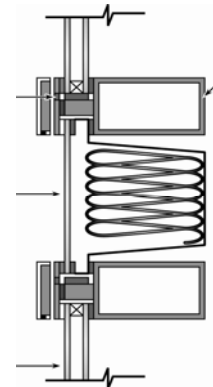


Practice Exam

As with the Chapter Review Tests and the Final Exam, the Practice Exam tests your understanding of the materials underlying the learning objectives. After you've reviewed your answers to the Chapter Review Tests, try your hand at this 50-question Practice Exam to become still more comfortable with taking a multiple-choice test. Remember, topics covered in this exam may likewise be covered in the Final Exam, but the wording of the questions will never be identical.

1. The type of gypsum wallboard that has a core specially formulated with additives and glass fibers for greater fire resistance is called:
 - a. type X wallboard.
 - b. gypsum sheathing.
 - c. type W wallboard.
 - d. gypsum lath.

2. In the figure shown, the arrows point to:
 - a. spandrel panel, drainage slot, mullion, and vision unit.
 - b. spandrel panel, drainage slot, glazing gaskets, and vision unit.
 - c. spandrel panel, drainage slot, thermal break, and vision unit.
 - d. EIFS (Exterior Insulation Finish Systems), grid system, masonry cavity, and drainage slot.



3. All of the following elements are always specified on mechanical drawings **except**:
 - a. pipe length.
 - b. equipment.
 - c. fittings.
 - d. lines.

4. In a full maintenance contract for an existing elevator system, the elevator maintenance company may list components it believes will soon need replacement and will not fully cover in a(n):
 - a. pricing clause.
 - b. proration clause.
 - c. exclusion clause.
 - d. liability clause.

5. Bedding plants that, once established, reappear each year are called:
 - a. seasonals.
 - b. deciduous.
 - c. perennials.
 - d. annuals.

6. The symbol for a 110 V, two-plug grounded, UL-certified outlet, typically mounted flush with finish floor level, is often represented by:
- a. $\ominus \ominus$ *or* $\oplus \oplus$
 - b. EL *or* V
 - c. \ominus *or* \oplus
 - d. \supseteq *or* \subseteq
7. The acronym for a plan that outlines the proper function of a system including operating sequences and schedules is:
- a. OSS.
 - b. SOP.
 - c. SFP.
 - d. PFS.
8. In the United States and Canada, building codes are established by:
- a. national code boards.
 - b. local municipalities.
 - c. state/provincial legislatures.
 - d. building consortiums.
9. The most important characteristic to look for when selecting carpet tile for an office is:
- a. fiber face weight.
 - b. dimensional stability.
 - c. type of installation glue.
 - d. backing thickness.
10. The two main types of access tile systems are the pull-down type and the:
- a. magnetic-seal type.
 - b. closing-spline type.
 - c. push-up type.
 - d. opening-spline type.

11. Gypsum wallboard for high-moisture areas such as bathrooms and utility rooms is called:

- a. type R.
- b. type W.
- c. type X.
- d. type M.

12. Steel cables sometimes are included in precast concrete structural members to provide:

- a. tensile strength.
- b. resistance to cracking.
- c. inexpensive construction materials.
- d. reduced construction time.

13. Watering plants more than is necessary will:

- a. usually have no ill effect.
- b. restrict root development.
- c. produce more weeds.
- d. enhance the growth of the plants.

14. Common roofing problems include all of the following **except**:

- a. blistering.
- b. spalling.
- c. cracking.
- d. lifting.

15. The placement and types of all new walls and doors, as well as existing walls and doors to remain, are indicated on the:

- a. architectural partition plan.
- b. reflected ceiling plan.
- c. millwork sheets.
- d. finish plan.

16. Institutional, industrial, and commercial types of construction are **most** likely to use:

- a. vinyl windows.
- b. steel windows.
- c. wood windows.
- d. plastic windows.

17. The wasting away of one of two dissimilar metals in contact with each other and moisture is:
- galvanic action.
 - anodic action.
 - metallic action.
 - cathodic action.
18. In metal curtain wall or window wall construction, the floors, ceilings, and mechanical spaces of the building are concealed by:
- exterior insulation finish system panels.
 - insulating panels.
 - spandrel panels.
 - horizontal mullion assemblies.
19. (Fill in the blank) The construction company is following the codes that control the mass, height, and uses of the building they are constructing. The codes are __ codes.
- building
 - zoning
 - either building or zoning
 - neither building nor zoning
20. A log becomes a record of performance data when readings that reflect operating conditions are taken and recorded on a recurring schedule, so that:
- all aspects of maintenance are covered.
 - a correct analysis of system operations can be made.
 - the central plant is operating at full energy efficiency potential.
 - an estimate in energy consumption can be made hourly.
21. A situation that most elevator maintenance contracts fail to cover is:
- repair work on a Sunday.
 - breakdown due to vandalism.
 - a car stuck between floors.
 - damage due to a malfunction.

22. (Fill in the blank) If one is to engage in inspection of a building's exterior walls, the best month for the inspection would be ___.
- January
 - April
 - July
 - Any of the above.
23. An alternative to keeping important parts in stock is knowing that the part is:
- unlikely to fail or need replacing.
 - manufactured by only one company.
 - supplied by the equipment manufacturer.
 - readily available from a local supplier.
24. The load per square inch that acts against an object is known as:
- compaction.
 - stress.
 - gravitational pull.
 - weight bearing ratio.
25. Wind, HVAC system pressure, and the stack effect all affect the building envelope by causing:
- weep system imbalance.
 - static charge.
 - air leakage.
 - structural loads.
26. When selecting a roofing system, all of the following are factors that should be considered **except**:
- owner preferences.
 - geographic location.
 - aesthetics.
 - capacitance survey.

27. A roofing component that balances pressures between the roof membrane and the atmosphere is:
- continuous cleating.
 - flange edging.
 - edge venting.
 - parapet coping.
28. The construction method that employs curtain walls supported by girders on the outside of the steel frame is called:
- beam-and-column.
 - loadbearing wall.
 - platform frame.
 - balloon frame.
29. In an emergency, the **first** and **most** important response is to promptly notify:
- life safety support personnel.
 - a senior manager.
 - building security personnel.
 - occupants who may be in danger.
30. In which areas is a fire-rated system typically found?
- under structural members requiring extra fire proofing, and in fire-rated hallways and exits
 - under structural members requiring extra thermal protection, and in fire-rated corridor partitions in multi-tenant office buildings
 - under structural steel members requiring thermal insulation, and in fire-rated stair cases and other exits
 - in areas that are completely fire proof or fire retardant, and many hospitals or other care centers
31. The meanings of symbols used on construction documents:
- are universally accepted conventions.
 - differ somewhat from office to office.
 - are prescribed by state and local inspection agencies.
 - are prescribed by the AIA (American Institute of Architects).

32. The most basic operating activities include unlocking and locking the building, turning lights on and off, and starting and stopping various motors. Which is the best list of more significant operation responsibilities?
- scheduling, monitoring, entering data, and contacting vendors
 - reading utility meters, paying bills, scheduling work orders, and handling complaints
 - scheduling, monitoring, troubleshooting, and documenting
 - recording log entries, documenting readings, keeping up on current training, and performing a watch tour
33. Proper maintenance of equipment produces:
- irregular work flow.
 - increased complaints.
 - prolonged equipment life.
 - decreased need for worker training.
34. An average elevator wait time of 25 seconds or less is rated:
- poor.
 - fair.
 - good.
 - excellent.
35. Live loads on a building include human occupants, furniture and equipment, and:
- lighting fixtures.
 - permanent partitions.
 - suspended ceilings.
 - wind and precipitation.
36. The scheduling of repair work resulting from equipment failure is based primarily on:
- urgency and priority.
 - availability of personnel.
 - life cycle costing.
 - established maintenance schedules.

37. Laminated glass consists of two layers of any type of glass with:
- an interlayer.
 - a low-E coating.
 - tinting.
 - protective coating.
38. Any building material that restricts the transfer of heat is a(n):
- energy obstruction.
 - infrared damper.
 - U-factor material.
 - thermal insulator.
39. When soil particles are arranged according to coarseness from coarse to fine, they are listed as follows:
- sand, gravel, clay, silts.
 - sand, gravel, silts, clay.
 - gravel, sand, silts, clay.
 - gravel, silts, sand, clay.
40. (Fill in the blank) Jill is considering how best to select flooring. The main criterion she should use is ___.
- cost
 - durability
 - function
 - safety
41. The factor that differentiates the four types of roofing asphalt is:
- hardness.
 - softening point.
 - deck slope.
 - building height.

42. Which lists the most important cleaning supervisory duties that are also most often neglected?
- assigning, training, and retraining
 - training, inspecting, and retraining
 - assigning, inspecting, and disciplining
 - training, retraining, and disciplining
43. While repairing hairline cracks in concrete is rarely necessary because of structural danger, it does improve the appearance of the structure and:
- eliminate the chance of spalling.
 - increase the chance of growth in the cracks.
 - remove the need for further monitoring.
 - protect against moisture penetration.
44. For large projects, the **best** way to protect against costs resulting from errors and omissions made by the architectural and engineering firm is to:
- have a second firm review the project.
 - make certain the firm has professional insurance.
 - buy your own insurance for the project.
 - maintain an adequate reserve of cash and credit.
45. Advantages of precast concrete include all of the following **except**:
- lower transport costs.
 - less labor per unit.
 - improved quality control.
 - reduced construction time.
46. In order for the cleaning staff to be most effective, the facility manager must ensure that they are equipped with:
- a base of operations.
 - proper equipment and supplies.
 - comfortable uniforms and identification.
 - All of the above.

47. Door operators, roller guides, door detector systems, and emergency lighting are examples of:
- control equipment.
 - peripheral equipment.
 - code-required equipment.
 - hoistway equipment.
48. The drawing that represents exactly how something will look, but in miniature, is the:
- scaled drawing.
 - technical drawing.
 - riser drawing.
 - projection drawing.
49. (Fill in the blank) If management is considering the installation of an average escalator, they can reasonably expect its average capacity to be ___ passengers per hour.
- 4,000
 - 5,000
 - 6,000
 - 7,000
50. Revisions to drawings or specifications made after the construction contract has been awarded to a particular builder are called:
- appendixes.
 - amendments.
 - addenda.
 - change orders.

Practice Exam Answers

- | | |
|-------|-------|
| 1. A | 26. D |
| 2. A | 27. C |
| 3. A | 28. A |
| 4. B | 29. D |
| 5. C | 30. B |
| 6. C | 31. B |
| 7. B | 32. C |
| 8. B | 33. C |
| 9. B | 34. D |
| 10. C | 35. D |
| 11. B | 36. A |
| 12. A | 37. A |
| 13. B | 38. D |
| 14. B | 39. C |
| 15. A | 40. C |
| 16. B | 41. B |
| 17. A | 42. B |
| 18. C | 43. D |
| 19. B | 44. B |
| 20. B | 45. A |
| 21. B | 46. D |
| 22. B | 47. B |
| 23. D | 48. A |
| 24. B | 49. C |
| 25. C | 50. D |