

Study Guide for Exam – Chapters 1-8

- 1) Read All Chapters
- 2) Read Chapter Summaries
- 3) Study Chapter Definitions
- 4) Study Chapter Review Questions / Homework Questions
- 5) Review CD-ROM Media Clips
- 6) Review CD-ROM Chapter Flash Cards
- 7) Review CD-ROM Quick Quizzes
- 8) Review and Practice Ohms Law handouts & problems, and Series vs. Parallel problems
- 9) Review Class Quizzes
- 10) Review Class Notes

Exam will be 60 Questions and comprised of approx.:

- 5-10 T/F
- 30-40 Multiple Choice
- 5-10 Fill-in
- 5-10 Ohms Law / Series vs. Parallel Problems

Sample Questions:

True/False

Indicate whether the sentence or statement is true or false.

- ___ 1. Portable PV systems can never be used while in motion.
- ___ 2. Passive solar design techniques incorporated into architecture increase the amount of energy needed for lighting, heating, cooling, and other loads.
- ___ 3. The efficiency of a building envelope is how well it isolates the indoor environment from the outdoor environment.

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

____ 4. A(n) ____ is a company that produces and/or distributes electricity from its central generation point to the consumer.

- a. integrator
- b. utility
- c. distributor
- d. provider

____ 5. Distributed-generation systems can include ____.

- a. PV systems
- b. wind turbines
- c. engine generators
- d. all of the above

____ 6. Portable PV systems power mobile loads such as ____.

- a. vehicles
- b. temporary signs and lighting
- c. handheld devices
- d. all of the above

Completion

Complete each sentence or statement.

7. Solar _____ is the angle between the equatorial plane and the line joining the centers of the sun and Earth (in the ecliptic plane).

8. _____ is a representation of the relative distance of atmosphere that solar radiation must travel through to reach Earth's surface.

9. The _____ orientation of the roof is the direction, such as southwest or due south, that the sloped surface faces.

Answers:

TRUE/FALSE

- 1. ANS: F
- 2. ANS: F
- 3. ANS: T

MULTIPLE CHOICE

- 4. ANS: B
- 5. ANS: D
- 6. ANS: D

COMPLETION

- 7. ANS: declination
- 8. ANS: Air mass
- 9. ANS: azimuth