

Updated and Error-free AEE CEM Exam Practice Test Questions

A-62. By 36-foot commercial office has an occupancy of 30 people. Under ASHRAE Standard 62.1-2007 Ventilation Rate Procedure, what is the minimum outside air flow that must be brought into the office?

- ☐ A. 158 CFM
- ☐ B. 222 CFM
- ☐ C. 519 CFM
- ☐ D. 600 CFM

Reference Materials

An important source of bioaerosols can be:

- ☐ A. Cooling coils of air conditioners
- ☒ B. Cigarettes
- ☐ C. Combustion products
- ☐ D. All of the above

Which is the quickest method to evaluate a project?

- ☐ A. Simple Payback Period
- ☐ B. Internal Rate of Return
- ☐ C. Return on Capital Employed
- ☐ D. Return on Assets

Potential energy-saving ideas for compressed air systems include:

- ☐ A. Repairing air leaks
- ☐ B. Using cooler intake air
- ☐ C. Using energy efficient belts (if belt driven)
- ☐ D. Lowering system air pressure
- ☒ E. All of the above

An energy audit shows a fully loaded oil rig has running 34 hours per day, 248 days per year. Estimate the annual savings if a compressor is upgraded to operate the full shift from 7.00 psi to 6.00 psi every day. The electric rate is \$0.08 per kWh. Demand pricing rate is \$3.00 per kWh-month and peak demand always occurs between 7.00 psi and 6.00 psi. Assume the test's motor is 90% efficient.

- ☐ A. \$8,200
- ☐ B. \$10,800
- ☐ C. \$10,200
- ☐ D. \$10,100
- ☐ E. \$14,100

Reference Materials

In order to estimate the amount of compressed air leaks, plant maintenance personnel calculated the time for a 10-psig drop in air pressure to be 5 minutes after shutting off all the air consumers. Assuming the total demand capacity including the leakage flow is 100 SCFM, how much compressed air is being lost due to air leaks?

- ☐ A. 8 SCFM
- ☐ B. 20 SCFM
- ☐ C. 30 SCFM
- ☐ D. 100 SCFM
- ☐ E. 200 SCFM

Reference Materials

An off-peak electric heating system may reduce the electric operating cost compared to a conventional electric heating system, but kWh consumption will usually:

- ☐ A. Increase
- ☐ B. Decrease
- ☐ C. Remain the same
- ☐ D. Not enough information

Reference Materials

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AEE Certified Energy Manager (CEM) Sample Questions (Q19-Q24):

NEW QUESTION # 19

What is the main cause of low power factor?

- A. Harmonics
- B. Fluorescent lighting
- C. Low-load induction motors
- D. Computers and electronic equipment
- E. Solar flares

Answer: C

NEW QUESTION # 20

Which type of lighting control technique operates in "manual on" and "auto-off mode, and can be used in situations where there is brief occupancy that do not need lights on?

- A. PIR/Microphonics dual technology
- B. Microphonics technology
- C. Occupancy sensor
- D. Photocell control
- E. Vacancy sensor

Answer: E

NEW QUESTION # 21

A new lighting system costs \$60,000. The new lighting system has a 15-year life and the minimum required rate of return (MARR) is 15%. How much must the new lighting system save to be life-cycle cost effective?

- A. \$27,090/year
- B. \$15,650/year
- C. \$33,200/year
- D. \$12,556/year
- E. \$10,260/year

Answer: D

NEW QUESTION # 22

A 3 MW rated wind-powered turbine has a rotor diameter of 113 meters. What is the efficiency of the wind turbine at rated power if it is operating in wind power calculated at 8.6 MW? Assume an air density of 1.225 kg/m³.

- A. 28.4%
- B. 42.7%
- C. 59.3%
- D. 34.9%

Answer: D

NEW QUESTION # 23

Which electric rate tariff would best cost justify a thermal energy storage (TES) system?

- A. Great differential between high season and low season demand rates
- B. Great differential between high season and low season electricity rates
- C. Low electricity rate and low peak-demand rate
- D. Great differential between off-peak and on-peak time-of-use electricity rates
- E. High electricity rate and low peak-demand rate

Answer: D

NEW QUESTION # 24

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