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Register Number :

7117

Name of the Candidate :

M.B.A. DEGREE EXAMINATION DECEMBER 2013.

(ENERGY MANAGEMENT – ONLINE)

(SECOND YEAR)

260 — ENERGY AUDIT AND MANAGEMENT

Time : Three hours

Maximum : 75 marks

SECTION A

Answer any FIVE questions. (5 × 3 = 15)
All questions carry equal marks.

Write short notes on :

1. Energy audit.
2. Benchmarking.
3. Energy costs.
4. Energy and mass balance.
5. CUSUM.
6. Energy Balance Sheet.
7. Refrigeration.
8. Energy policy planning.

SECTION B

Answer any THREE questions. (3 × 10 = 30)
All questions carry equal marks.

9. Explain the general aspects of energy management.
10. Describe in detail about the energy audit activity.
11. Describe the process of controlling excess air in FBC.
12. Explain the energy policy planning and its implementation process.
13. Discuss in detail about the thermal power plant.

SECTION C**Answer any ONE question.****(1 × 15 = 15)****All questions carry equal marks.**

14. Describe in detail about the project management life cycle.
15. Explain the method of preparing energy flow diagram.
16. Enumerate the procedure in plant energy study.

SECTION D**Compulsory****(1 × 15 = 15)**

17. Case Study: The Rambler Road House, Diep River, Western Cape.

Sustainable Energy Africa conducted a water and energy retrofit for Mathew Walton at his Rambler Road house in Diep River in October 2004. Nine conventional light bulbs were replaced by compact fluorescents, a geyser timer was installed and an old, unused geyser switched off. Energy readings were taken to establish an average for the months preceding the retrofit process. The energy savings are calculated against electricity bills unit purchase post retrofit. Greater accuracy would be achieved with measures over a longer post retrofit time period.

Questions

- (a) Discuss the energy saving methods followed in India.
- (b) Discuss the energy saving trends between India and procedure followed in western cape.
