

ME-801(A) energy conservation and audit jun 2014

Note: Attempt any FIVE questions. Support your answers with neat diagrams.

All questions carry equal marks.

1. (a) Discuss the concept of "Energy Management". Discuss various tools, used for it.

(b) State in brief energy conservation tips in Transportation and Agriculture sector.

Or

2. (a) Discuss duties and responsibilities of energy manager in any organisation.

(b) Discuss energy conservation tips in service and industrial sector.

3. (a) Define "Energy Audit". State its need and importance. Discuss types of energy audit.

(b) Explain in brief various aspects of "Energy Conservation Act 2001

Or

4. (a) Write short note on "Matching energy use to requirement".

[www.rgpvonline.in](http://www.rgpvonline.in)

(b) What do you mean by "Optimization of input energy requirement in , respect of fuel and energy substitution ?

5 (a) Write short note on "Energy Policy" in respect of following aspects -

(i) Purpose

(ii) Perspective

(iii) Content

(iv) Formulation.

(b) Discuss how "Process Flow" and "Material Flow" diagrams help in energy saving ?

Or

6 (a) Explain the key elements of "Energy Action Planning".

(b) Discuss "Force Field Analysis" in respect of energy conservation and management.

7 (a) Discuss brief about "Energy efficient motors". [www.rgpvonline.com](http://www.rgpvonline.com)

(b) State in brief some important energy saving tips in pumps and fan system.

Or

8 (a) Define energy monitoring and Targeting. State its need, importance and other aspects.

(b) Write about "Data and information Analysis".

9 (a) Discuss various energy conservatin tips in boilers.

(b) What do you mean by "Building Energy Management" ? Discuss its various methods.

Or

10. Write short note on following (any two)

(a) FBC and its applications (b) Heat exchangers (c) Thermal Insulation (d) Cogeneration.