



**SNS COLLEGE OF TECHNOLOGY**  
(An Autonomous Institution, Affiliated to Anna University)  
Coimbatore- 641 035.



QUESTION BANK

**2marks**

1. Define power factor.
2. Infer energy sources based on their origin.
3. Analyze the basic unit of enthalpy
5. Criticize the major source of fuel used for power production in India.
7. What is commercial energy?
8. Define energy intensity and energy input –output ratio.
9. Infer energy sources based on their origin.
10. Analyze the home energy audit.
12. Criticize the major source of fuel used for power production in India.
13. What is non-commercial energy?
14. List down the objectives of energy management.
15. Infer about the efficiency of blowers.
16. What is the use of Lux meter?
17. State Pascal's law.
18. What is cavitation in centrifugal pumps?
19. What are the methods to improve power factor?
20. Estimate the Lux and Lumens.
21. Infer about Compressor
22. Compare Reactive power and Active power.
23. Illustrate the types of pumps
24. Define energy economics.
25. Infer about CDM.
26. Differentiate between Energy Conservation and Energy Efficiency.
27. List the steps in energy audit.
28. What are the factors of accurate energy forecasting?
29. What were the objectives of Kyoto Protocol?
30. Infer about Energy Pricing.



31. How a nation benefits from Energy Efficiency programs?
32. State the energy equivalents of male, female, bullocks and horses.

**16 mark questions**

1. Classify and explain the conventional and non-conventional energy resources.
2. Explain in detail about Sankey diagram.
3. Describe the pattern of energy consumption and constraints of agro products.?
4. Explain the significance of renewable energy in Agriculture.
5. Distinguish between direct and indirect energy.
6. Explain the energy conservation techniques in Agriculture.
7. Elaborate about the three modes heat transfer with suitable examples.
8. Discuss the various stages of Energy Auditing
9. Explain the type's energy audit.
10. Elaborate the energy auditing in rural living.
11. Examine the energy conservation opportunities in pumping systems.
12. Summarize the various guidelines required for material and energy balance.
13. Elaborate the role of energy manager and explain the instruments for energy auditing?
14. Discuss the terms of Lux, Lumens and Explain the types of lighting.
15. Describe the energy conservation opportunities in a fan and Blowers?
16. Elaborate the Energy losses and their management.
17. Discuss in detail about the energy efficient motors.
18. Explain about the features of boilers and their energy conservation
19. Describe the energy conservation opportunities in a fan and Blowers?
20. Discuss with a case for energy auditing and saving in agro industries
21. Summarize the steps involved in economic analysis method
22. Explain the significance of energy modeling in farm.
23. Narrate the classification of energy resources available in the farm. Explain its potential



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24. An agro farm uses 15 bulbs each of 40 W (8 hours a day), 3 fans of 200 W (12 hours a day) and electric heater of 2000 W (3 hours a day). Calculate the current monthly bill for that farm. The farm is to be electrified with Renewable sources. Estimate the cost required for electrification.
25. Give an account of energy economics and cost conversion of operational and source wise energy in agriculture
26. Discuss the barriers in conservation of energy in agro industries and explain the methods to overcome them.
27. Explain the energy conservation to be adopted in Land Preparation, Cultivation, Harvesting Threshing and processing
28. Explain the significance of energy forecasting in farm.
29. Distinguish between preliminary energy audit and detailed energy audit
30. Summarize the steps involved in economic analysis method