



St. Michael Polytechnic College

St. Santhiyagappar Nagar
Kalayarkoil-630 551.



DEPT: MECHANICAL

SUB.NAME: RENEWABLE ENERGY SOURCES

YEAR/SEMESTER: II / III

SUB.CODE: 22033

Each question carries 1(one) mark in PART-A and 12(twelve) marks in PART-B

UNIT-I: FUNDAMENTALS OF ENERGY

PART-A

1. Define Energy.
2. What are the different types of Energy?
3. What is Energy Yield Ratio?
4. Classify Energy sources based on long term availability.
5. State the importance of Renewable Energy Sources.
6. Define Energy Chain.
7. What is Ecology?
8. Define Global Warming.
9. State the types of Reactors used in Nuclear Plant.
10. Define Energy Conservation.
11. Abbreviate ECO & ECM.
12. What are the harmful effects of Carbon Monoxide (CO)?
13. Mention Bio-mass Resources.
14. Define Geothermal Energy.
15. Define Green House effect.
16. Define Energy Conservation Act.
17. What are the harmful effects of Nitrogen Oxide (NO₂)?

PART-B

1. Explain the various Pollutants and their Harmful effects.
2. How will you classify the sources of Energy and explain it.
3. Define Energy Chain and explain it.
4. Explain Energy Conservation and its Act.
5. What are the Advantages and Disadvantages of Conventional and Non-conventional Energy Sources?
6. Describe the growth of energy sector and its planning in India?