



St. Michael Polytechnic College

St. Santhiyagappar Nagar
Kalayarkoil-630 551.



DEPT: MECHANICAL

YEAR/SEMESTER: III / V

SUB.NAME: POWER PLANT ENGINEERING

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

UNIT-1 SOURCES OF ENERGY AND ECONOMICS OF POWER PLANT

PART-A

1. State any two sources of energy.
2. State any two solid fuels.
3. What is fuel?
4. Classify fuels.
5. State any two merits of solid fuels.
6. State any two merits of gaseous fuel.
7. What is calorific value?
8. Write the expansion to determine the lower calorific value.
9. State the properties should be considered while selecting the coal.
10. What are the requirements of fuel?
11. State any three non-conventional sources of energy.
12. State the application of solar energy.
13. State any two wind mill system used for water pumping in India.
14. State the types of tariff.
15. State the various types of load.
16. What are the requirements of a tariff?

PART-B

1. Explain the various sources of energy.
2. Explain the various type of coal.
3. Describe non-conventional energy sources.
4. Compare the various sources of power.
5. Describe economic load sharing method.
6. Describe briefly about various type of tariff.
7. Describe the economics of power plant selection.
8. Explain about solid fuels, liquid fuels and gaseous fuels.