

Reg. No: 

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR  
(AUTONOMOUS)

B.Tech IV Year I Semester Regular Examinations November/December-2022

POWER PLANT ENGINEERING

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

1 Explain the layout of steam power plant with neat sketch. L2 12M

OR

2 a Identify the pollution effects from hydro-electric plants. L1 6M

b List the advantages of combined operation of power plants. L2 6M

**UNIT-II**

3 a Summarize types of coal. L1 6M

b What are the properties of coal? L2 6M

OR

4 Explain with a neat diagram the process of coal handling from coal mines to combustion chamber. L1 12M

**UNIT-III**

5 List out the advantages and disadvantages of combined cycle power plant. L1 12M

OR

6 Summarize the important components of an I.C. engine. L2 12M

**UNIT-IV**

7 Classify the dams and explain them. L1 12M

OR

8 Discuss a pumped storage power plant with neat diagram. L2 12M

**UNIT-V**

9 Explain a nuclear reactor with neat diagram. L1 12M

OR

10 List out all the advantages and disadvantages of a nuclear power plant. L2 12M

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