

Reg. No:

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

**B.Tech IV Year II Semester Supplementary Examinations May-2022**

**POWER PLANT ENGINEERING**

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 What is a nuclear power plant explain its layout with neat sketch. L1 12M
- OR**
- 2 Explain the layout of gas turbine power plant. L2 12 M

**UNIT-II**

- 3 Organize types of equipment used for transferring coal. L3 12M
- OR**
- 4 Write briefly about cyclone furnace, design and construction. L5 12M

**UNIT-III**

- 5 Construct a line diagram of combined steam and gas turbine power plants and explain. L5 12M
- OR**
- 6 Explain different types of Fuel supply system. L2 12M

**UNIT-IV**

- 7 Explain the need for flow measurement and the methods for flow measurement. L2 12M
- OR**
- 8 Classify the dams and explain them. L4 12M

**UNIT-V**

- 9 a Discuss true chain reaction. L2 6M  
b Enumerate the requirements of fission process. L1 6M
- OR**
- 10 List out all the advantages and disadvantages of a nuclear power plant. L1 12M

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