

Q.21 Mention the advantages of Wind Energy Conversion Systems.

Q.22 Explain Global warming. What are its effects on the environment?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the construction and working of Pressurized Water Reactor with the help of diagram.

Q.24 Explain the working of a diesel power plant with the help of a general layout.

Q.25 Explain :

- a) Hydro Power plant
- b) Pumped storage plant

6th Sem / Mechanical Engineering

Subject : Power Plant Engineering

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following should be considered while designing a power plant?

- a) Simplicity of design
- b) High efficiency
- c) Low maintenance cost
- d) All of the above

Q.2 What should be the most important factor under consideration for the site selection of a thermal power plant?

- a) Availability of fuel
- b) Distance from the populated area
- c) Availability of water
- d) Cost and the type of land

- Q.3 Control rods are made up of:
 a) Graphite or Barium b) Boron or Cadmium
 c) Lead d) Uranium 235
- Q.4 Which of the following is NOT a component of a gas turbine power plant?
 a) Compressor
 b) Turbine
 c) Boiler
 d) Combustion Chamber
- Q.5 What is the primary energy source used in hydroelectric power plant?
 a) Coal b) Sunlight
 c) Moving water d) Natural gas
- Q.6 The fuel used in thermal power plant is :
 a) Uranium 235 b) Iron
 c) Methane d) Coal

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Full form of BWR is _____.
- Q.8 What is Acid Rain?

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- Q.9 Full form of HAWT is _____.
- Q.10 Define Peak Load.
- Q.11 Name any two coal handling method used in thermal power plants.
- Q.12 Define Nuclear fission and Nuclear fusion?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Mention are the various tariff method used in power plants?
- Q.14 Mention the advantages of hydro-electric power plant.
- Q.15 Explain the governing of hydraulic turbines.
- Q.16 Explain working of solar Power Plant in brief?
- Q.17 Draw a schematic diagram of open cycle gas turbine power plant. Also mention two disadvantages of gas turbine power plant.
- Q.18 Explain feed water treatment method in thermal power plant.
- Q.19 Mention the various methods of nuclear waste disposal.
- Q.20 Explain Maximum Power Point Tracker in solar power plant. (MPPT)

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