

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

Term-End Examination

December, 2013

BME-058 : POWER PLANT ENGINEERING

Time : 3 hours

Maximum Marks : 70

Note : Answer any seven questions. Assume if any data is missing.

1. What are the health hazards in setting up a nuclear power plant ? Explain in detail. 10
2. (a) Explain the natural draft cooling towers. 5
(b) Describe the nuclear chain reactions. 5
3. (a) Explain the functions of a governor. 5
(b) Discuss the advantage and disadvantage of a gas turbine power plant. 5
4. What are the different types of treatment and conditioning of nuclear waste ? 10
5. Discuss in detail the generator theory with a sketch. 10
6. Illustrate the candut type reactor in detail. 10
7. (a) Describe the SCHMIOTHARTMANN Boiler. 5
(b) Describe the Benson Boiler. 5

8. Describe in brief the different types of water turbines. 10
 9. Explain in detail the wind power generation. 10
 10. Describe in detail the different types of gas turbines. 10
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