

B.E (Instru) Sem-VIII CBGS

(3 Hours)

[Total Marks: 80]

4/12/18

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- N.B: (1) Question No. 1 is compulsory.
(2) Attempt any Three questions from remaining.
(3) Figures to the right indicate full marks.

1. Answer the following: -
 - (a) Explain the importance of non-conventional energy sources. [20]
 - (b) With neat sketch, explain pneumatic ash handling system.
 - (c) Explain the term multiplication factor with respect to nuclear reactor.
 - (d) Give the detailed classification of hydroelectric power plants.

2. (a) What are the accessories of Boiler. Explain their significance in detail. [10]
(b) Explain the boiler combustion control. [10]

3. (a) Explain the working of Gas turbine power plant with neat sketch. [10]
(b) Explain the working of Pelton turbine with neat diagram. [10]

4. (a) Draw the schematic of a Nuclear power station and explain. [10]
(b) With neat block diagram, explain wind energy conversion system. [10]

5. (a) With neat diagram, explain solar thermal power plant. [10]
(b) Explain with suitable diagram, the working of the solar PV power plant. [10]

6. Write Short note on: - (Any Two) [20]
 - (a) Geothermal energy.
 - (b) Comparison of various power plants.
 - (c) HAWT.
