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Roll No

ME-602 (GS)
B.E. VI Semester
 Examination, December 2017
Grading System (GS)
Power Plant Engineering
Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
 ii) All questions carry equal marks.

1. Explain the principle of working of MHD generation with a neat diagram.
2. Write a short note on 'fuel cells' with diagram.
3. Explain the fuel handling system.
4. Explain the various methods of feed water treatment.
5. Explain the various types of thermal reactors.
6. During a 10 hour run from one station to another a railway engine develops an average power of 1200kW. If engine is driven by an atomic plant of 20% efficiency. How much U^{235} would be consume on the run. Each Uranium 235 atoms on fission releases 180Mev of energy.

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7. Explain the main component of hydro-electric power plant with a neat sketch.
8. Answer any four of the following:
 - a) Write a short note on 'Solar energy'.
 - b) What are the various factors which are essential for site selection of a steam power plant.
 - c) Explain the components of nuclear reactor with diagram.
 - d) Write a short note on water hammer. How it can be prevented?
 - e) Define plant capacity factor and plant use factor.
 - f) Discuss the comparison of hydro and nuclear power plant.
