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**Question Paper Code : 91852**

**B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019**

**Fifth/Seventh Semester**

**Mechanical Engineering**

**ME 6701 – POWER PLANT ENGINEERING**

**(Common to Mechanical Engineering (Sandwich)/Electrical and Electronics Engineering)  
(Regulations 2013)**

**(Also common to PTME 6701 – Power Plant Engineering for B.E. (Part-Time)**

**Sixth Semester – Mechanical Engineering/Second Semester – Electrical and  
Electronics Engineering – Regulations 2014)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions**

**PART – A**

**(10×2=20 Marks)**

1. What do you understand by externally irreversible and internally irreversible Rankine cycle ?
2. Why the thermal efficiency of a condensing steam power plant is less in a warm region than in a cold region ?
3. Enlist the advantages and disadvantages of diesel engine power plants.
4. State the advantages of combined cycle power generation.
5. What are the requirements to sustain fission process ?
6. How do nuclear power plants effect the environment ?
7. List the types of conventional energy sources and non-conventional energy sources.
8. What is the function of surge tank in hydroelectric power plant ?
9. Define demand factor and load factor.
10. List the factors affecting power plant design.

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**N Noddings**



## **Important Question Mechanical Engineering Anna University:**

*A Textbook of Engineering Materials and Metallurgy* A. Alavudeen, N. Venkateshwaran, J. T. Winowlin Jappes, 2006

**Basic Electrical and Electronics Engineering** R.K. Rajput, 2007     *Electrical Engineering* R.K. Rajput, 2007

Powders and Grains 2005, Two Volume Set R. Garcia-Rojo, H.J. Herrmann, Sean McNamara, 2005-07-01 This volume contains the proceedings of the Fifth International Conference on the Micromechanics of Granular Media Powders and Grains 2005 Powders and Grains is an international scientific conference held every 4 years that brings together engineers and physicists interested in the micromechanics of granular media The book is a guide to the hottest *Women of Steel and Stone* Anna M. Lewis, 2014-01-01 An inspiration for young people who love to design build and work with their hands *Women of Steel and Stone* tells the stories of 22 female architects engineers and landscape designers from the 1800s to today Engaging profiles based on historical research and firsthand interviews stress how childhood passions perseverance and creativity led these women to overcome challenges and break barriers to achieve great success in their professions Subjects include Marion Mahony Griffin who worked alongside Frank Lloyd Wright to establish his distinct architectural drawing style Emily Warren Roebling who after her husband fell ill took over the duties of chief engineer on the Brooklyn Bridge project Marian Cruger Coffin a landscape architect who designed estates of Gilded Age mansions Beverly L. Greene the first African American woman in the country to get her architecture license Zaha Hadid one of today's best known architects and the first woman to receive the prestigious Pritzker Architecture Prize and many others Practical information such as lists of top schools in each field descriptions of specific areas of study and required degrees and lists of programs for kids and teens places to visit and professional organizations make this an invaluable resource for students parents and teachers alike

**The International Journal of Mechanical Engineering Education** ,1984     **The Electrician Electrical Trades Directory and Handbook** ,1900     **Appletons' Annual Cyclopaedia and Register of Important Events** ,1896

**Domestic Engineering and the Journal of Mechanical Contracting** ,1922     *Appletons' Annual Cyclopædia and Register of Important Events of the Year ...* ,1896     **Publisher's Monthly** ,2004     *The American Annual Cyclopaedia and Register of Important Events of the Year ...* ,1896     **Yale Scientific** ,2005     **The Mechanical News** ,1890

**Engineering News and American Contract Journal** ,1900     **The Engineer** ,1902     **Indian Engineering** Patrick Doyle, 1898     *The National Cyclopaedia of American Biography* ,1922     **The Engineering Record, Building Record and the Sanitary Engineer** ,1906     **Electrical Review** ,1887

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