

Reg. No.:			10.01	100

## 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)

- 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?
- 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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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 hotte The Electrician Electrical Trades Directory and Handbook ,1900 The International Journal of Mechanical Engineering Education Domestic Engineering and the Journal of Mechanical Contracting ,1922 Publisher's Monthly ,2004 .1984 Appletons' Annual Cyclopædia and Register of Important Events of the Year ..., 1896 Appletons' Annual Cyclopaedia and Register of Important Events, 1896 The American Annual Cyclopedia and Register of Important Events of the **Year ...** ,1896 Yale Scientific ,2005 The Mechanical News .1890 **Electrical Review** .1887 **Scientific** American ,1900 **Indian Engineering** Patrick Doyle, 1898 The Engineer, 1902 New York Libraries ,1909 Book Bulletin Chicago Public Library, 1924 Innovations in Engineering Education ,2004

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