



WINTER – 19 EXAMINATION

Subject Name: Power Plant Engineering

Model Answer

Subject Code:

22566

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q. No.	Sub Q.N.	Answer	
Q.1 a)	a)	Types of Power Plant 1. Nuclear power plant 2. Thermal power plant 3. Wind power plant 4. Geothermal power plant 5. Diesel power plant 6. Hydroelectric power plant 7. Tidal power plant	Any four 2M
	b)	Following are the two types of FBC boiler 1) Bubbling Fluidized Bed Combustion (BFBC) 2) Circulating Fluidized Bed Combustion (CFBC).	1M each
	c)	Advantages of Steam Power Plant – (four points – 2 marks) 1) The fuel used is quite cheap. 2) It can be installed at any place irrespective of the existence of coal. The coal can be transported to the site of the plant by rail or road. 3) Economical in initial cost compared to hydro plants 4) Running costs are less compared to gas plants or diesel plants 5) Steam plants can withstand for overload for certain extent	2M
	d)	Waste heat is the heat which is not used and exhausted out as a waste product. In thermal power plant large quantity of heat at lower thermal potential (70°C) is discharged to the atmosphere. If we recover this heat, there will be reduction in fuel consumption, lower harmful emissions and improvement in production efficiency.	2M

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Answer Sheet For Jan 2014 Ppe Paper 1 Foundation:

Psychiatry of Pandemics Damir Huremović, 2019-05-15 This book focuses on how to formulate a mental health response with respect to the unique elements of pandemic outbreaks Unlike other disaster psychiatry books that isolate aspects of an emergency this book unifies the clinical aspects of disaster and psychosomatic psychiatry with infectious disease responses at the various levels making it an excellent resource for tackling each stage of a crisis quickly and thoroughly The book begins by contextualizing the issues with a historical and infectious disease overview of pandemics ranging from the Spanish flu of 1918 the HIV epidemic Ebola Zika and many other outbreaks The text acknowledges the new infectious disease challenges presented by climate changes and considers how to implement systems to prepare for these issues from an infection and social psyche perspective The text then delves into the mental health aspects of these crises including community and cultural responses emotional epidemiology and mental health concerns in the aftermath of a disaster Finally the text considers medical responses to situation specific trauma including quarantine and isolation associated trauma the mental health aspects of immunization and vaccination survivor mental health and support for healthcare personnel thereby providing guidance for some of the most alarming trends facing the medical community Written by experts in the field Psychiatry of Pandemics is an excellent resource for infectious disease specialists psychiatrists psychologists immunologists hospitalists public health officials nurses and medical professionals who may work patients in an infectious disease outbreak

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Table of Contents Answer Sheet For Jan 2014 Ppe Paper 1 Foundation

1. Understanding the eBook Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - The Rise of Digital Reading Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Personalized Recommendations
 - Answer Sheet For Jan 2014 Ppe Paper 1 Foundation User Reviews and Ratings
 - Answer Sheet For Jan 2014 Ppe Paper 1 Foundation and Bestseller Lists
5. Accessing Answer Sheet For Jan 2014 Ppe Paper 1 Foundation Free and Paid eBooks
 - Answer Sheet For Jan 2014 Ppe Paper 1 Foundation Public Domain eBooks
 - Answer Sheet For Jan 2014 Ppe Paper 1 Foundation eBook Subscription Services
 - Answer Sheet For Jan 2014 Ppe Paper 1 Foundation Budget-Friendly Options
6. Navigating Answer Sheet For Jan 2014 Ppe Paper 1 Foundation eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Sheet For Jan 2014 Ppe Paper 1 Foundation Compatibility with Devices
 - Answer Sheet For Jan 2014 Ppe Paper 1 Foundation Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Highlighting and Note-Taking Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Interactive Elements Answer Sheet For Jan 2014 Ppe Paper 1 Foundation

8. Staying Engaged with Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
9. Balancing eBooks and Physical Books Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Setting Reading Goals Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Fact-Checking eBook Content of Answer Sheet For Jan 2014 Ppe Paper 1 Foundation
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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