

**Eighth Semester B.E. Degree Examination, June/July 2013**  
**Rapid Prototyping**

Time: 3 hrs.

Max. Marks: 100

*Note: Answer FIVE full questions, selecting  
atleast TWO questions from each part.*

**PART – A**

1. a. With example, explain the historical development of rapid prototyping technology. (06 Marks)  
 b. List the applications of RP technology in manufacturing industries. (04 Marks)  
 c. Compare RP technology with CNC technology. (04 Marks)  
 d. With a neat sketch, explain the working of SLA technique. (06 Marks)
2. a. List and explain the different process parameters of SLA technique. (06 Marks)  
 b. List the different materials which may be used in manufacturing of products in SLA technique. (04 Marks)  
 c. Explain with a neat sketch, principle of operation of Selective Laser Sintering (SLS) process. (10 Marks)
3. a. List the specifications of FDM machine. (05 Marks)  
 b. List the different materials which may be used in FDM machine. (05 Marks)  
 c. With a neat sketch, explain the construction and operation of SGC technique. (10 Marks)
4. a. What is concept modeling? Explain the applications of RP components from concept modeling. (08 Marks)  
 b. With a neat sketch, explain the following concept modeling technique  
 i) Sander's (model) maker  
 ii) 3D printer. (12 Marks)

**PART – B**

5. a. What is rapid tooling? Compare rapid tooling with conventional tooling. (08 Marks)  
 b. Explain with a neat sketch the following indirect tooling techniques.  
 i) Aluminum filled epoxy tooling  
 ii) Spray metal tooling. (12 Marks)
6. a. List the difference between following tooling types with example for each  
 i) Soft tooling v/s hard tooling  
 ii) Direct tooling v/s indirect tooling. (08 Marks)  
 b. With a neat sketch, explain the following methods of tooling techniques  
 i) Copper polyamide  
 ii) Sand casting tooling  
 iii) Laminate tooling (12 Marks)

# Rapid Prototyping Vtu Question Papers

**Wolfgang Guggemos**



## **Rapid Prototyping Vtu Question Papers:**

## Decoding **Rapid Prototyping Vtu Question Papers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Rapid Prototyping Vtu Question Papers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Table of Contents Rapid Prototyping Vtu Question Papers**

1. Understanding the eBook Rapid Prototyping Vtu Question Papers
  - The Rise of Digital Reading Rapid Prototyping Vtu Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Rapid Prototyping Vtu Question Papers
  - 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 Rapid Prototyping Vtu Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Rapid Prototyping Vtu Question Papers
  - Personalized Recommendations
  - Rapid Prototyping Vtu Question Papers User Reviews and Ratings
  - Rapid Prototyping Vtu Question Papers and Bestseller Lists

5. Accessing Rapid Prototyping Vtu Question Papers Free and Paid eBooks
  - Rapid Prototyping Vtu Question Papers Public Domain eBooks
  - Rapid Prototyping Vtu Question Papers eBook Subscription Services
  - Rapid Prototyping Vtu Question Papers Budget-Friendly Options
6. Navigating Rapid Prototyping Vtu Question Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Rapid Prototyping Vtu Question Papers Compatibility with Devices
  - Rapid Prototyping Vtu Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Rapid Prototyping Vtu Question Papers
  - Highlighting and Note-Taking Rapid Prototyping Vtu Question Papers
  - Interactive Elements Rapid Prototyping Vtu Question Papers
8. Staying Engaged with Rapid Prototyping Vtu Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rapid Prototyping Vtu Question Papers
9. Balancing eBooks and Physical Books Rapid Prototyping Vtu Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Rapid Prototyping Vtu Question Papers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Rapid Prototyping Vtu Question Papers
  - Setting Reading Goals Rapid Prototyping Vtu Question Papers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Rapid Prototyping Vtu Question Papers
  - Fact-Checking eBook Content of Rapid Prototyping Vtu Question Papers
  - 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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