

Fourth Semester B.E. Degree Examination, June-July 2009
Manufacturing Process - II

Time: 3 hrs.

Max. Marks:100

*Note : Answer any FIVE full questions, selecting atleast
 TWO questions from each Part - A and Part - B.*

PART - A

1.
 - a. With neat sketches, give nomenclature of a single point cutting tool. (07 Marks)
 - b. Derive the conditions $2\phi + \beta - \gamma = \frac{\pi}{2}$. Explain its significance with usual notations. (07 Marks)
 - c. List various factors influencing tool - life. Explain any one of them. (06 Marks)
2.
 - a. List various cutting tool materials in the increasing order of their hardness. (06 Marks)
 - b. Explain with the help of neat sketches, heat distribution at tool and workpiece. (06 Marks)
 - c. What are the methods of measurement of temperature of cutting tool tip? Explain any one of them. (08 Marks)
3.
 - a. Differentiate between capstan and turret lathes. (05 Marks)
 - b. With a neat sketch, explain any one of the driving mechanisms used in a shaping machine. (08 Marks)
 - c. Sketch a planning machine indicating major parts. Name any one of the mechanism for quick return movement in a planer. (07 Marks)
4.
 - a. List various drilling machines. (05 Marks)
 - b. Draw neat sketch of a radial drilling machine indicating parts. (06 Marks)
 - c. Sketch and mention the application of the drilling machine operations - counter boring reaming and trepanning. (09 Marks)

PART - B

5.
 - a. With sketches, differentiate between up milling and down milling operations. (06 Marks)
 - b. Draw a neat sketch to show major parts of a horizontal milling machine. (08 Marks)
 - c. What is Indexing? Explain compound indexing. (06 Marks)
6.
 - a. List various grinding wheel abrasives and bonding processes. (07 Marks)
 - b. Sketch a centre type - cylindrical grinding machine indicating parts. (08 Marks)
 - c. Differentiate between horizontal and vertical grinding machines. (05 Marks)
7.
 - a. Sketch and explain vertical lapping machine. (08 Marks)
 - b. Name the parts along with a neat sketch of a tool head for honing of holes. (07 Marks)
 - c. List the uses of lapping process. (05 Marks)
8.
 - a. Mention any five non - traditional machining processes. (05 Marks)
 - b. Explain AJM with a neat sketch. (10 Marks)
 - c. What are the applications of non traditional machining methods? (05 Marks)

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Table of Contents Fitting Machining N2 Question Papers

1. Understanding the eBook Fitting Machining N2 Question Papers
 - The Rise of Digital Reading Fitting Machining N2 Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Fitting Machining N2 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 Fitting Machining N2 Question Papers
 - User-Friendly Interface

4. Exploring eBook Recommendations from Fitting Machining N2 Question Papers
 - Personalized Recommendations
 - Fitting Machining N2 Question Papers User Reviews and Ratings
 - Fitting Machining N2 Question Papers and Bestseller Lists
5. Accessing Fitting Machining N2 Question Papers Free and Paid eBooks
 - Fitting Machining N2 Question Papers Public Domain eBooks
 - Fitting Machining N2 Question Papers eBook Subscription Services
 - Fitting Machining N2 Question Papers Budget-Friendly Options
6. Navigating Fitting Machining N2 Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Fitting Machining N2 Question Papers Compatibility with Devices
 - Fitting Machining N2 Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fitting Machining N2 Question Papers
 - Highlighting and Note-Taking Fitting Machining N2 Question Papers
 - Interactive Elements Fitting Machining N2 Question Papers
8. Staying Engaged with Fitting Machining N2 Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fitting Machining N2 Question Papers
9. Balancing eBooks and Physical Books Fitting Machining N2 Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fitting Machining N2 Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fitting Machining N2 Question Papers
 - Setting Reading Goals Fitting Machining N2 Question Papers
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Fitting Machining N2 Question Papers
 - Fact-Checking eBook Content of Fitting Machining N2 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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