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 form each Part – A and Part - B.

	TWO questions form each Part - A and Part - I	9.
	PART - A	
	With neat sketches, give nomenclature of a single point cutting tool.	(97 Marks)
b.	Derive the conditions $2\phi + \beta - \gamma = \frac{\pi}{2}$. Explain its significance with usual notat	ions.
		(07 Macks)
C	List various factors influencing tool – life. Explain any one of them.	(66 Marks)
25	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? Expl	lain any
	one of them.	(08 Marks)
0.7	Differentiate between capstan and turret lathes.	(05 Mairlos)
Ib.	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)
		(05 Marks)
b.		(06 Marks)
0		
	reaming and trepanning.	(69 Marks)
	PART - B	
40	With sketches, differentiate between up milling and down milling operations.	(06 Marks)
b.		(08 Marks)
C.	What is Indexing? Explain compound indexing.	(06 Marks)
0.	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)
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)
а.	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)
	化 电热 化 电热 化 电热 化 电热 化 电热 化 电热	 PART - A a. With neat sketches, give nomenclature of a single point cutting tool. b. Derive the conditions 2φ + β - γ = π/2. Explain its significance with usual notate. c. List various factors influencing tool – life. Explain any one of them. a. List various cutting tool materials in the increasing order of their hardness. b. Explain with the help of neat sketches, heat distribution at tool and workpiece. c. What are the methods of measurement of temperature of cutting tool tip? Explone of them. a. Differentiate between capetan and turret lathes. b. With a neat sketch, explain any one of the driving mechanisms used in a shapi machine. c. Sketch a planning machine indicating major parts. Name any one of the mechanism returns and trepancing. a. List various drilling machines. b. Draw neat sketch of a radial drilling machine indicating parts. c. Sketch and mention the application of the drilling machine operations — count reaming and trepanning. a. With sketches, differentiate between up milling and down milling operations. b. Draw a neat sketch to show major parts of a horizontal milling machine. c. What is Indexing? Explain compound indexing. a. List various grinding wheel abrasives and bonding processes. b. Sketch a centre type — cylindrical grinding machine indicating parts. c. Differentiate between horizontal and vertical grinding machines. a. Sketch and explain vertical lapping machine. b. Name the parts along with a neat sketch of a tool head for honing of holes. c. List the uses of lapping process.

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Table of Contents N2 Fitting And Machining Past Exam Papers

- 1. Understanding the eBook N2 Fitting And Machining Past Exam Papers
 - The Rise of Digital Reading N2 Fitting And Machining Past Exam Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying N2 Fitting And Machining Past Exam 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 N2 Fitting And Machining Past Exam Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from N2 Fitting And Machining Past Exam Papers
 - Personalized Recommendations
 - N2 Fitting And Machining Past Exam Papers User Reviews and Ratings
 - N2 Fitting And Machining Past Exam Papers and Bestseller Lists

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