



ALPHA COLLEGE OF ENGINEERING & TECHNOLOGY

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Plot No. 10, Sector 10, Gandhinagar, Gandhinagar

1. **Explain different type of chips with neat sketch.**
2. **Differentiate between metal forming and generating method.**
3. **Differentiate between orthogonal cutting and oblique cutting.**
4. **Explain Speed, Feed, and Depth of cut on a lathe machine.**
5. **What is cutting fluid? Explain its properties.**
6. **Draw the Line Diagram of Lathe Machine and give its Specification.**
7. **Explain Up-milling and Down-milling process.**
8. **Differentiate Capstan Lathe and Turret Lathe.**
9. **Explain Whitworth Quick Return Mechanism with neat sketch.**
10. **Differentiate Slotting and Shaping Machine.**
11. **Difference between Shaper & Planer.**
12. **Explain crank and slotted type quick return mechanism of shaper.**
13. State importance of the metal removal processes.
14. Enlist different type of drilling machine. Draw a block diagram of simple drilling machine and Label its main parts.
15. Explain uses of Chucks, collets and face plates with figure
16. Draw a neat sketch of lathe and explain any five operations Performed on lathe.

Prepared By :

Mahipal Rathod



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17. Classification of Milling Machine
18. Explain with Line Diagram Column and Knee Type Milling Machine.
19. Classify the milling machine and draw a line diagram of plain milling Machine, showing different parts.
20. What is indexing in milling machine? Explain any two Methods of Indexing.
21. List various Milling operations & explain any three with sketch.
22. Explain with Line Diagram Column and Knee Type Milling Machine.
23. Classify the milling machine and draw a line diagram of plain milling machine, showing different parts.
24. what is indexing in milling machine? Explain any two Methods of Indexing.
25. List various Milling operations & Explain any three With sketch.
26. Draw a neat sketch of single point cutting tool with its geometry.
27. Answer in Brief.
 1. Positive and Negative Rake Angle.
 2. List cutting tool materials.
28. Define terms.
 - (1) Tool Life (2) Machinability
 - (2) Cutting speed (4) Depth of cut(5) Feed
 - (3) (6) Machine tool (7) MRR

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29. Define Tool life. Explain Taylor's relation between tool life and cutting speed and State factor affecting tool life.
30. Explain: 1.Tool Life. 2. Tool Wear.