

MANUFACTURING TECHNOLOGY

Model Questions

2 Marks type Questions

1. State the composition of HSS.
2. What do you mean by depth of cut?
3. State the specification of a shaper.
4. What are the types of milling m/c?
5. List the operations carried out in Lathe.
6. Define Lapping.
7. Define rake angle and classify it.
8. Define drilling and boring.
9. How do you specify a shaper m/c tool?
10. What is indexing?
11. How the size of planes is specified?
12. Define abrasive?
13. What do you mean by Lathe?
14. Which materials are used in the manufacturing of grinding wheels?
15. What is broaching?

5 marks type Questions

1. State the physical properties and uses of any cutting tool materials.
2. Differentiate between capstan and turret Lathe?
3. Explain with a neat sketch the geometry of single point cutting tool and mention various tool angles.
4. Explain the construction and working of tool head of a shaper.
5. Briefly explain with neat sketch the construction and working of simple dividing Head.
6. Explain the construction and working of centreless Cylinder.
7. Explain any one method of taper turning operation.
8. Explain the working of radial drilling m/c.
9. Differentiate between upmilling and down milling.
10. Give a brief comparison between shaper and planer.

Long type questions

1. Explain quick return mechanism of a shaper/m/c
2. Explain compound indexing.
3. State the criteria and specification of grinding wheels.
4. Describe table drive mechanism in planer.
5. Describe the desirable properties of coolants and lubricants.
6. Describe with neat sketch the construction and working of a conventional lathe.
7. Describe various operations performed by milling m/c.
8. Name various cutting tool materials. Briefly describe one important tool material along with its characteristics and usability.
9. Define broaching. Explain different types of broaching.
10. With the help of a neat sketch, show and explain the working of Bench drilling m/c.