

CHAPTER 12

DRILLING

QUESTIONS

1. State the working principle of a drilling machine.
2. Explain principal parts of the drilling machine and sketch the mechanism of a drilling machine.
3. Give the classification of drilling machines.
4. How will you specify a drilling machine?
5. What operations can be done on a drilling machine? Discuss them with diagrams.
6. With the help of a line diagram, describe the construction of radial drilling machine.
7. List the devices commonly used for holding the work on a drilling machine, and describe any three.
8. Define cutting speed, feed and machining time for drilling.
9. Sketch a twist drill and name its different parts.
10. What is boring? Sketch a boring tool.
11. What is the function of flutes on a twist drill bit? Why are straight flute drills used for nonferrous materials and metal?
12. Draw suitable figure for a drill bit showing:
(i) Point (ii) lip clearance (iii) point angle (iv) flute (v) margin and (vi) body clearance
- 13 Write short notes on following:
(i) Drilling (ii) Boring, (iii) Reaming (iv) Tapping (v) Counter boring (vi) Counter sinking
14. Explain various types of operations performed on a drilling machine by neat sketches.
15. Define the following terms used in drilling operation.
(i) Cutting speed (ii) Feed