

Manufacturing Technology

SET-A

- ① What are desirable characteristics of cutting tool materials? Describe them in brief?
- ② Describe the various methods carried out on a lathe?
- ③ Explain the automatic feed mechanism of a shaping machine?
- ④ Describe the table drive mechanism of a planer?
- ⑤ Describe various milling uses attachments in brief?
- ⑥ What is Centreless grinding? Describe Centreless grinding?
- ⑦ With a block diagram, describe the function and working of a radial drilling machine?
- ⑧ Explain with neat sketch, the working of an universal dividing head?
- ⑨ Explain the quick return mechanism of a shaper machine?
- ⑩ What is broaching? Explain the different types of broaching?
- ⑪ What is Compound indexing? How is it carried out? Explain.
- ⑫ Draw a neat sketch of a milling cutter and explain its different part?

13) Explain the Specification of grinding wheels with example?

14) Describe various operations Performed by milling Machine?

15) Describe the desirable Properties of Coolants and Lubricants?

SET - B

1) State the Physical Properties and uses of any Cutting tool materials?

2) Explain with a neat sketch the geometry of a Turning tool. (Single Point Cutting tool)

3) Differentiate between Capstan & Turret Lathe?

4) Explain the Construction and working of tool head of a shaper?

5) What are the characteristics of cutting tool materials?

6) List the various hand tools and discuss their Cutting action?

7) Describe in brief the main Parts of a shaper?

8) Describe grit, grade and structure of a grinding wheel?

9) Describe different broaching operations & applications?

10) Compare between plain & universal milling up?

SET-C

- ① Name any four important tools with their Comparison
- ② Define S.S. & S.C lathe?
- ③ Name different types of milling machines?
- ④ Define grinding?
- ⑤ Name different types of drilling machines?
- ⑥ Differentiate between Coolants & lubricants?
- ⑦ Define grinding wheel?
- ⑧ Define Boring?
- ⑨ What is the main function of a lathe?
- ⑩ Define Abrasive?