

SECTION-B

2. With the help of suitable sketches, explain the geometry of a single point cutting tool.
3. Describe the main parts of a lathe machine with the help of suitable sketches.
4. Differentiate between progressive and compound dies.
5. With the help of neat diagrams, explain the different types of drill holding devices.
6. Define indexing? Differentiate between compound and differential type of indexing.

SECTION-C

7. Explain the construction and working of a surface grinding machine with the help of suitable sketches.
8. (a) Explain the necessity of uses of coolants in machining operations. How coolants affect the speed, feed and depth of cut of machining?
(b) Explain in detail the power driving mechanism of a power press? Also define shut height.
9. (a) What is Extrusion? Explain the various factors which affect the performance of extrusion process.
(b) Define the cutting speed, feed and depth of cut for a drilling operation.