

Th-2 Manufacturing Technology

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1& 2
Figures in the right-hand margin indicates marks

1. Answer All questions 2 x 10
 - a. Name four major parts of lathe machine.
 - b. Explain grinding wheel.
 - c. Define speed, feed and depth of cut in a shaper.
 - d. Classify Milling Machines.
 - e. What do you understand by quick return mechanism?
 - f. What is multiple holder?
 - g. Define lapping.
 - h. State the composition of 18-4-1 HSS tool.
 - i. Compare drilling with boring operation.
 - j. Define speed and feed of cut.

2. Answer Any Six Questions 6 x 5
 - a. Explain tool geometry of a single point cutting tool.
 - b. Explain work holding attachment in milling machine.
 - c. Write different parts of a slotter and their function.
 - d. Compare shaper with a planar.
 - e. State the advantages of broaching.
 - f. Discuss about the tooling layout of a hexagonal bolt.
 - g. Discuss about the functions of centreless grinder.

3. With neat sketch explain the function of pillar drilling machine. 10
4. Describe the function of different components of a shaper with 10 schematics. 10
5. Name various cutting tool materials. Briefly describe one 10 important tool material along with its characteristics and uses. 10
6. Explain with a neat sketch, the working of an universal dividing 10 head. 10
7. Define turning. Describe about various parts and their function of 10 Capstan & Turret Lathe. 10