- 2
- 5. (a) Explain with an example, graphical method of designing form tool.
  - (b) A workpiece of 38 mm diameter is being turned on a lathe with a tool having rake angle of 33° and a feed of 0.15 mm/rev. The length of chip over one revolution of workpiece is 72 mm. The cutting speed is 12.5 m/min the tangential force is 410 N and feed force is 170 N Calculate:—
    - (i) Coefficient of friction on a rake face
    - (ii) Thickness of chip
    - (iii) Velocity of shear
    - (iv) Velocity of chip along the tool face.
- 6. Write short notes on (any four) :-
  - (a) Lapping and honing
  - (b) Dressing and truing of grinding wheel
  - (c) Co-ordinate measuring machine
  - (d) Nomenclature of drilling tool
  - (e) Geometry of Milling cutter.

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