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Reg. No. : .....

Name : .....

VI Semester B.Tech. Degree Examination, June 2009
Branch : Mechanical/Industrial/Automobile
Lab : MACHINE SHOP – II (MNU)
(Select one model by draw of lot)

Time : 3 Hours Max. Marks : 100

1. Machine – Milling machine

   Calculate the maximum number of spur gear tooth, depth of cut and indexing plate for the given blank using a_____ (12) DP cutter. Cut the maximum number of tooth.

   (Number of tooth should select with the availability of index plate)

2. Machine – Milling machine

   Calculate the maximum number of spur gear tooth, depth of cut and indexing plate for the given blank using a_____ (10) DP cutter. Cut the maximum number of tooth.

   (Number of tooth should select with the availability of index plate)

3. Machine – Milling machine

   Calculate the maximum number of spur gear tooth, depth of cut and indexing plate for the given blank using a_____ (1/1.25mm) Module cutter. Cut the maximum number of tooth.

   (Number of tooth should select with the availability of index plate)

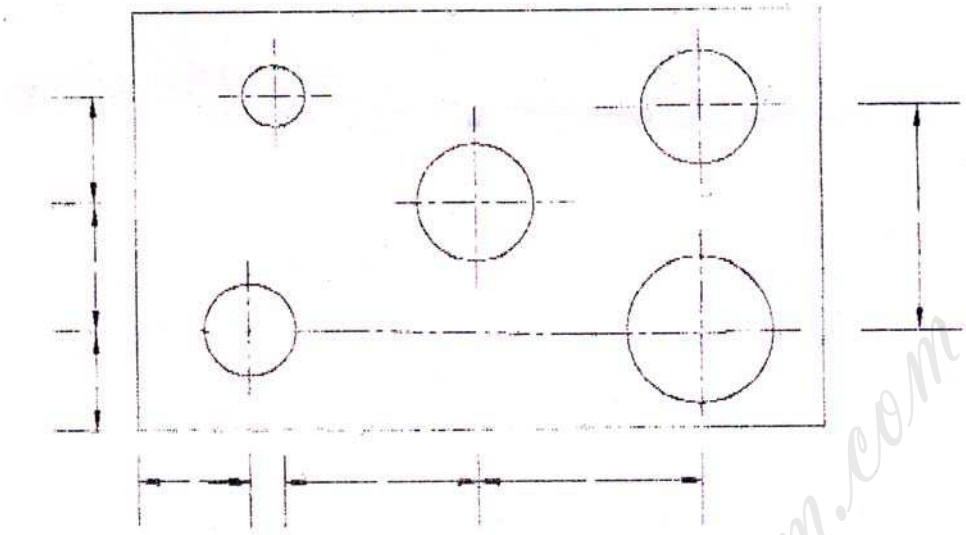
4. Machine – Milling machine

   Calculate the maximum number of spur gear tooth, depth of cut and indexing plate for the given blank using a_____ (1.5/1.75 mm) Module cutter. Cut the maximum number of tooth.

   (Number of tooth should select with the availability of index plate)

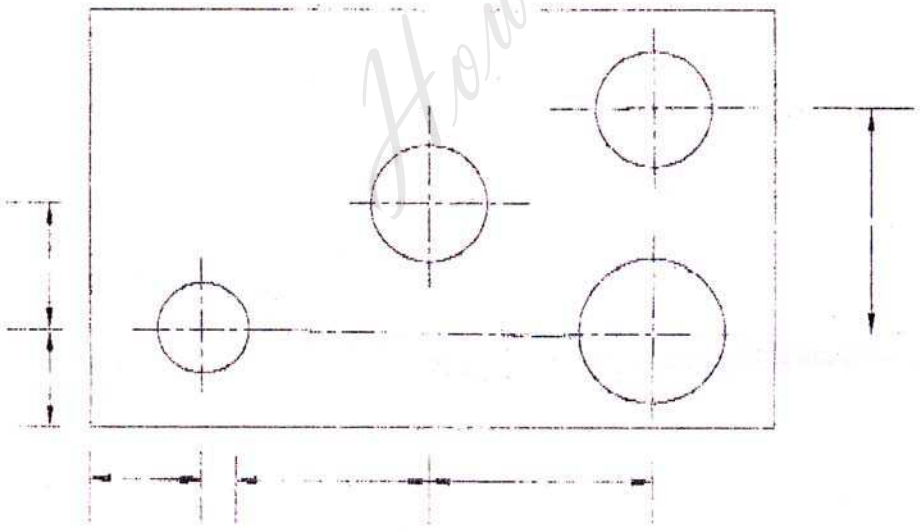
P.T.O.

5. Drilling and Surface Grinding.



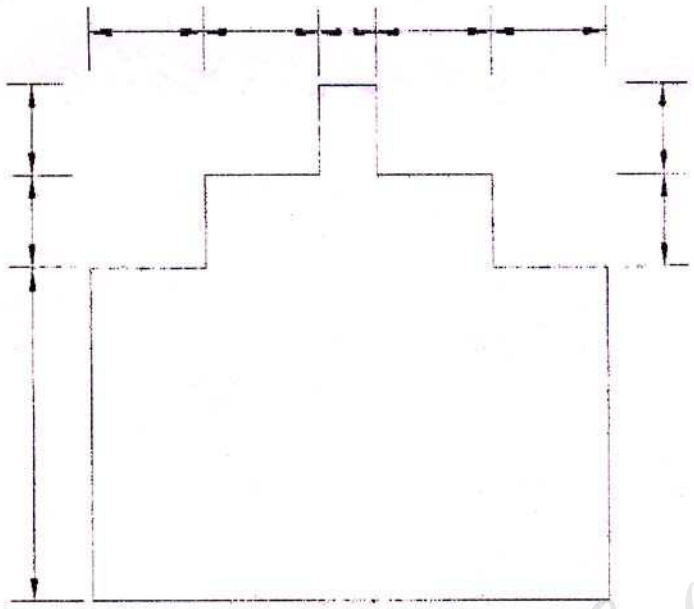
Raw material minimum size 40×70×8 mm M.S. Flat.
Grind one side of the given mild steel flat and drill the holes.
Size of the holes. D1 _____ mm, D2 _____ mm, D3 _____ mm, D4 _____ mm, D5 _____mm.
Machine-Surface grinding and Drilling machine.

6. Drilling and Surface Grinding.



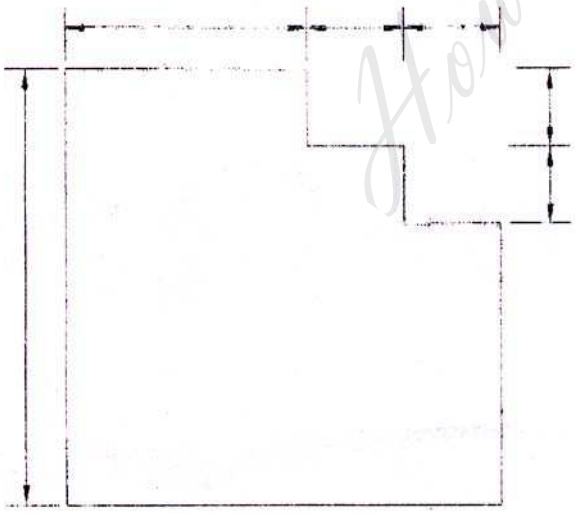
Raw material minimum size 40×70×8 mm M.S. Flat.
Grind one side of the given mild steel flat and drill the holes.
Size of the holes. D1 _____ mm, D2 _____ mm, D3 _____ mm, D4 _____ mm.
Machine-Surface grinding and Drilling machine.

7. Vertical Milling.



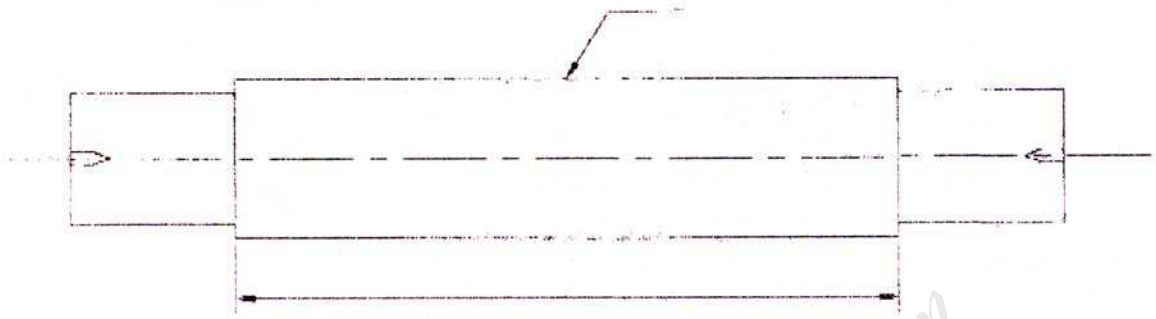
Machine – Vertical milling
Material – Cast iron/Mild steel
Size : 50 × 50 × 50 mm.

8. Vertical Milling.



Machine – Vertical milling
Material – Cast iron/Mild steel.
Size : 50 × 50 × 50 mm.

9. Cylindrical Grinding.



Material – M.S. Rod 25 mm dia. 265 mm length.

Machine – Cylindrical Grinding.
