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## THIRD SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION OCTOBER 2012

ME/AM/AN 09 304/PTME 09 303—COMPUTER ASSISTED MACHINE DRAWING

(2009 Admissions)

Time: Three Hours

Maximum: 70 Marks

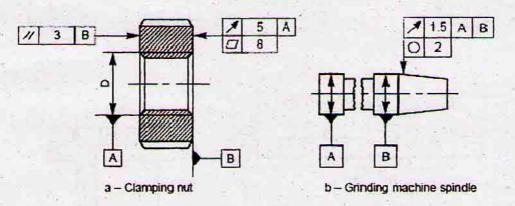
 Draw the half sectional view from the front, with top half in section and the view from the side of a cotter joint with socket and spigot ends, to connect two rods of 50 mm diameter each.

Or

2 Draw (a) sectional view from the front and (b) view from the side of a universal coupling, indicating proportions, to connect two shafts, each of diameter 40 mm.

(15 marks)

II. 3 Explain the meaning of the geometrical tolerances indicated in n.icrons, for the machine tool components shown in Figure :



Or

4. Draw (a) sectional view from the front and (b) view from above of a foot-step bearing with radialand thrust ball bearings, suitable for supporting a shaft of diameter 60 mm.

(20 marks))

5. Assemble all parts of the stuffing box for a vertical steam engine, shown in Figure and draw, (i) half sectional view from the front, with left half in section, (ii) half sectional view from the right and; (iii) view from above.

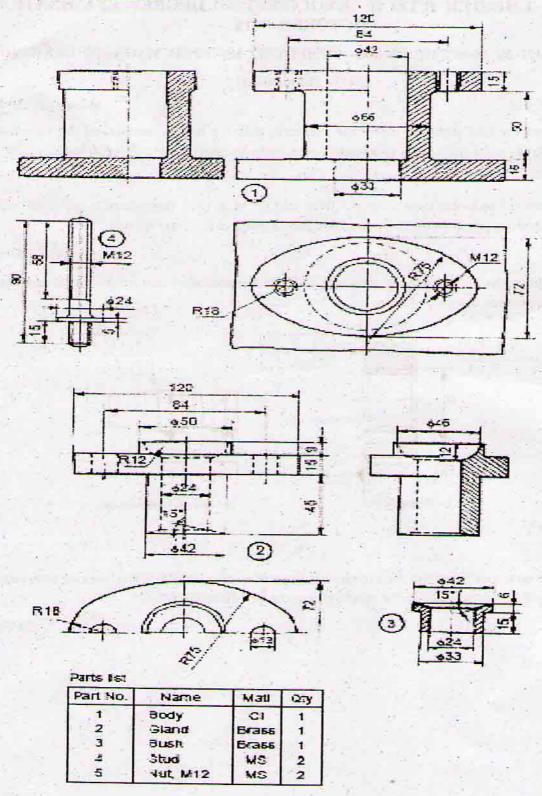


Fig. Stuffing Box

6. Figure shows the details of a gate valve. Assemble the parts and draw to full scale, (i) sectional view from the front, (ii) the view from above and; (iii) the view from the left.

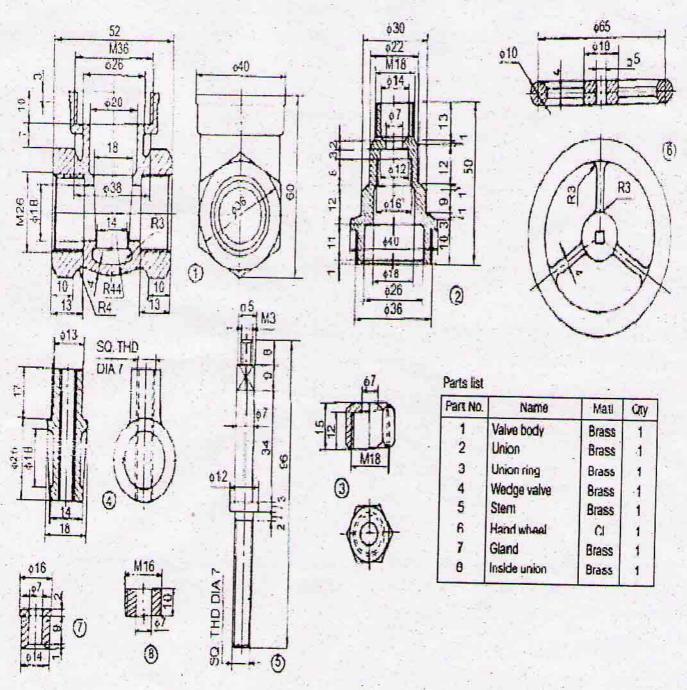


Fig. Gate valve