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B. Tech. Degree III Semester Examination November 2014**ME 1306 MACHINE DRAWING**
(2012 Scheme)

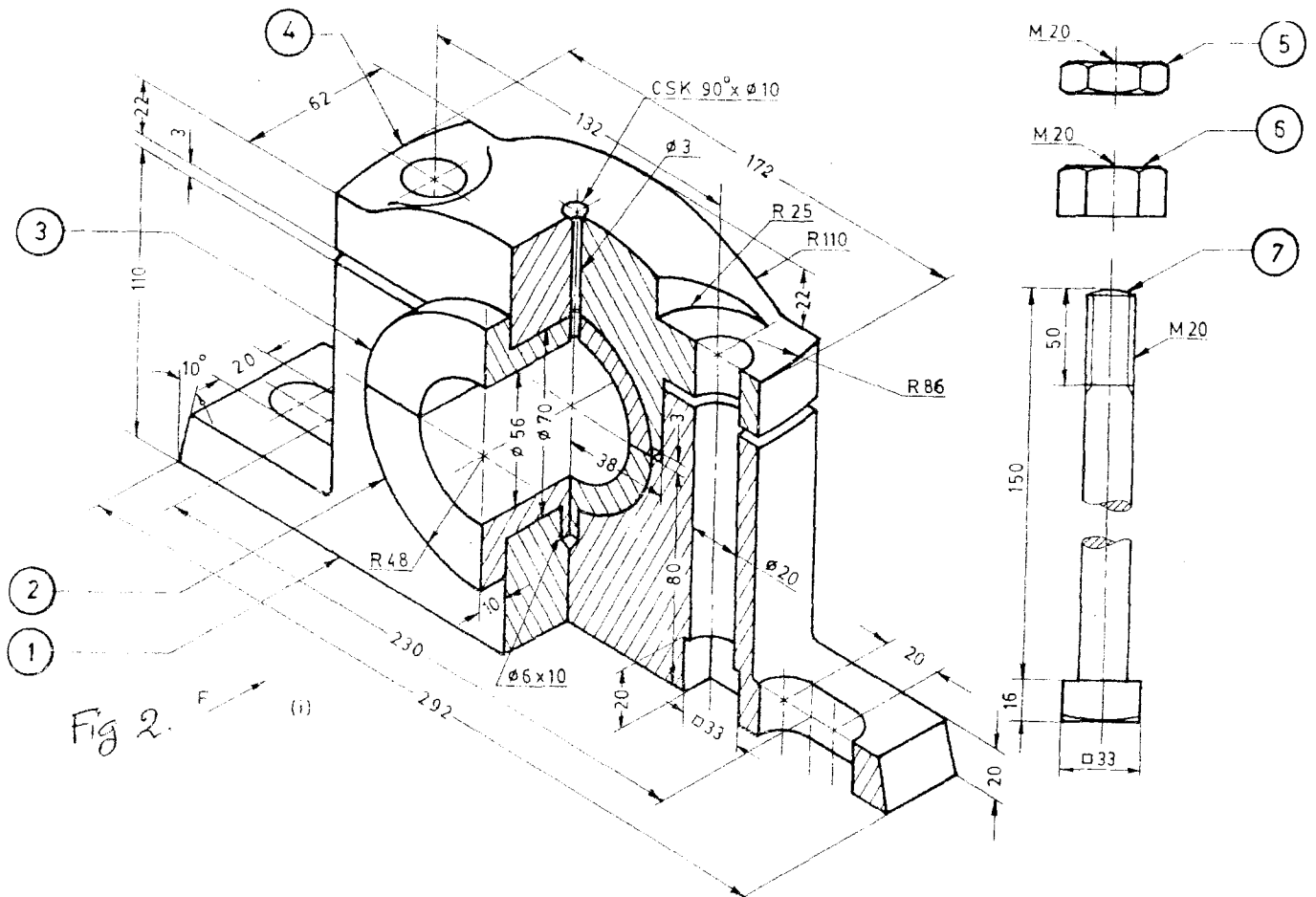
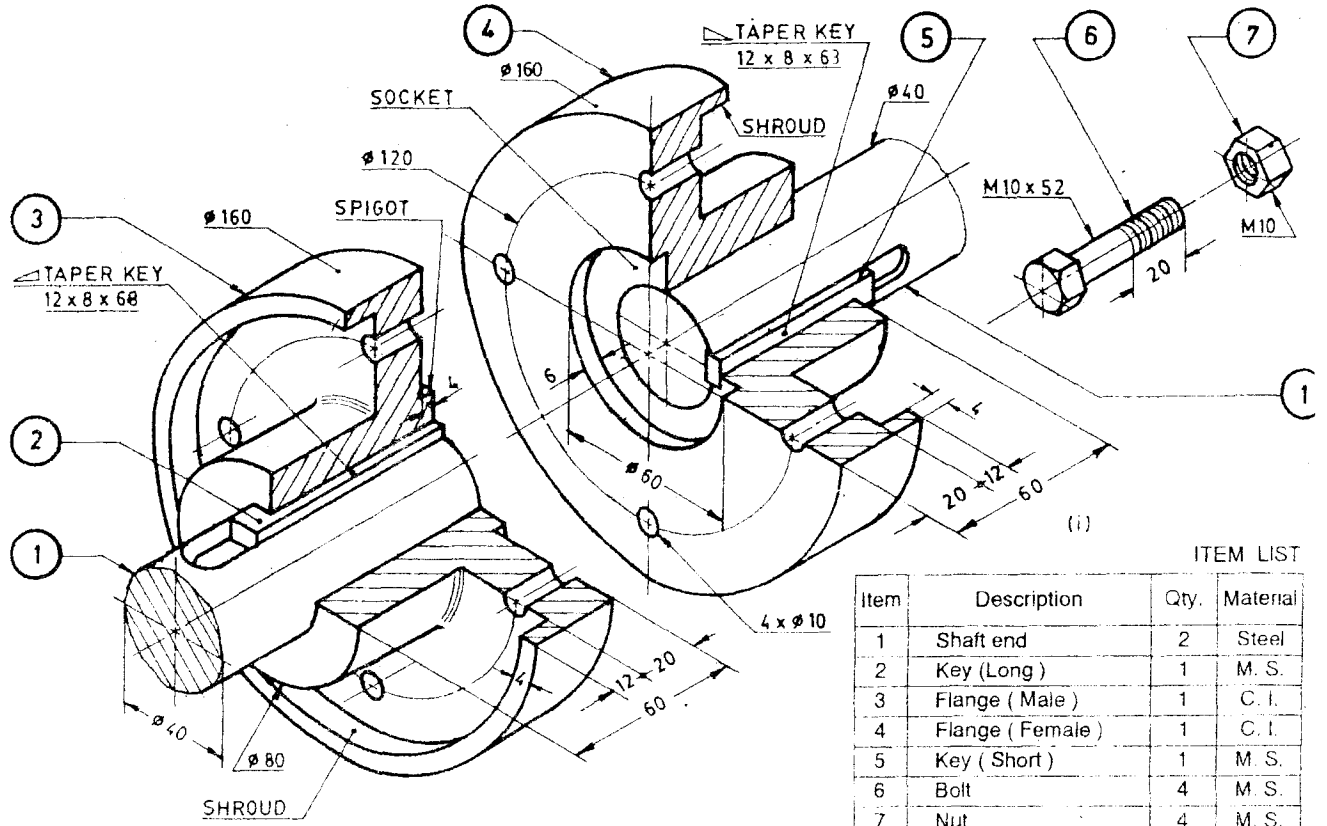
Time: 4 Hours

Maximum Marks: 100

- I. (a) Draw the front and top views of a hexagonal headed bolt of size M30. The length of the bolt is 100 mm and the thread length is 60 mm. Indicate all dimensions of the drawing with respect of the diameter of the bolt. (15)
- (b) Draw a Lewis foundation bolt for $\phi 30$ mm and indicate standard proportions on the drawing. (15)
- OR**
- II. Draw half sectional elevation and side view of a Knuckle joint for connecting rods of 30 mm diameter. Indicate approximate proportions. (30)
- III. Fig 1 shows an isometric view of a protected type flanged coupling. Draw the following views to 1:1 scale. (30)
- (i) Top half sectional elevation
- (ii) End view looking from the right hand side
- OR**
- IV. Details of a plummer block are shown in Fig 2. Draw the following views (30)
- (i) Right half sectional elevation
- (ii) Plan
- V. Details of a lathe tail stock are shown in Fig 3. Assemble the parts and draw the sectional elevation. (40)
- OR**
- VI. Details of a Rams bottom safety valve are given in Fig 4. Assemble the parts and draw half sectional elevation. (40)

(Figures overleaf)

(P.T.O.)



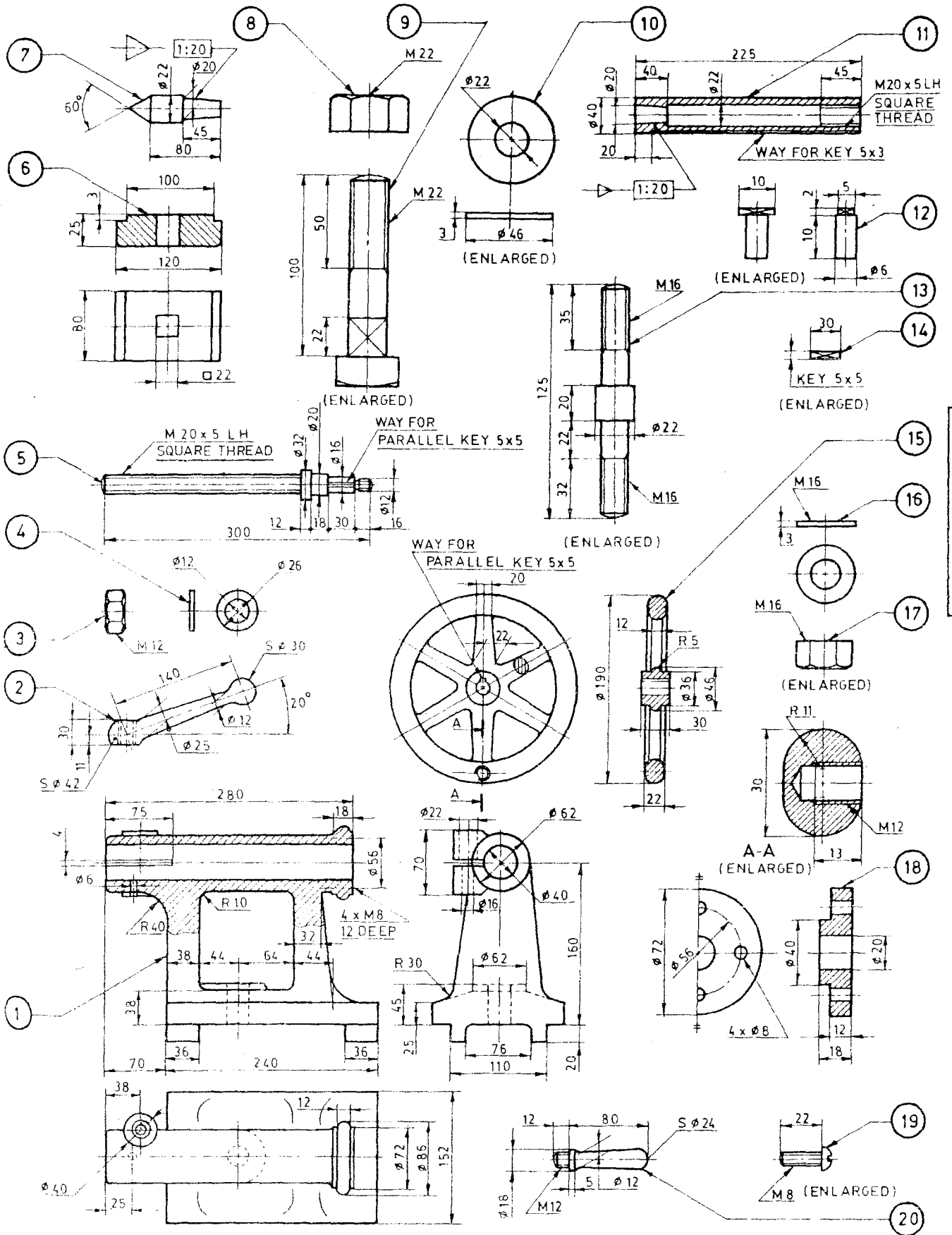
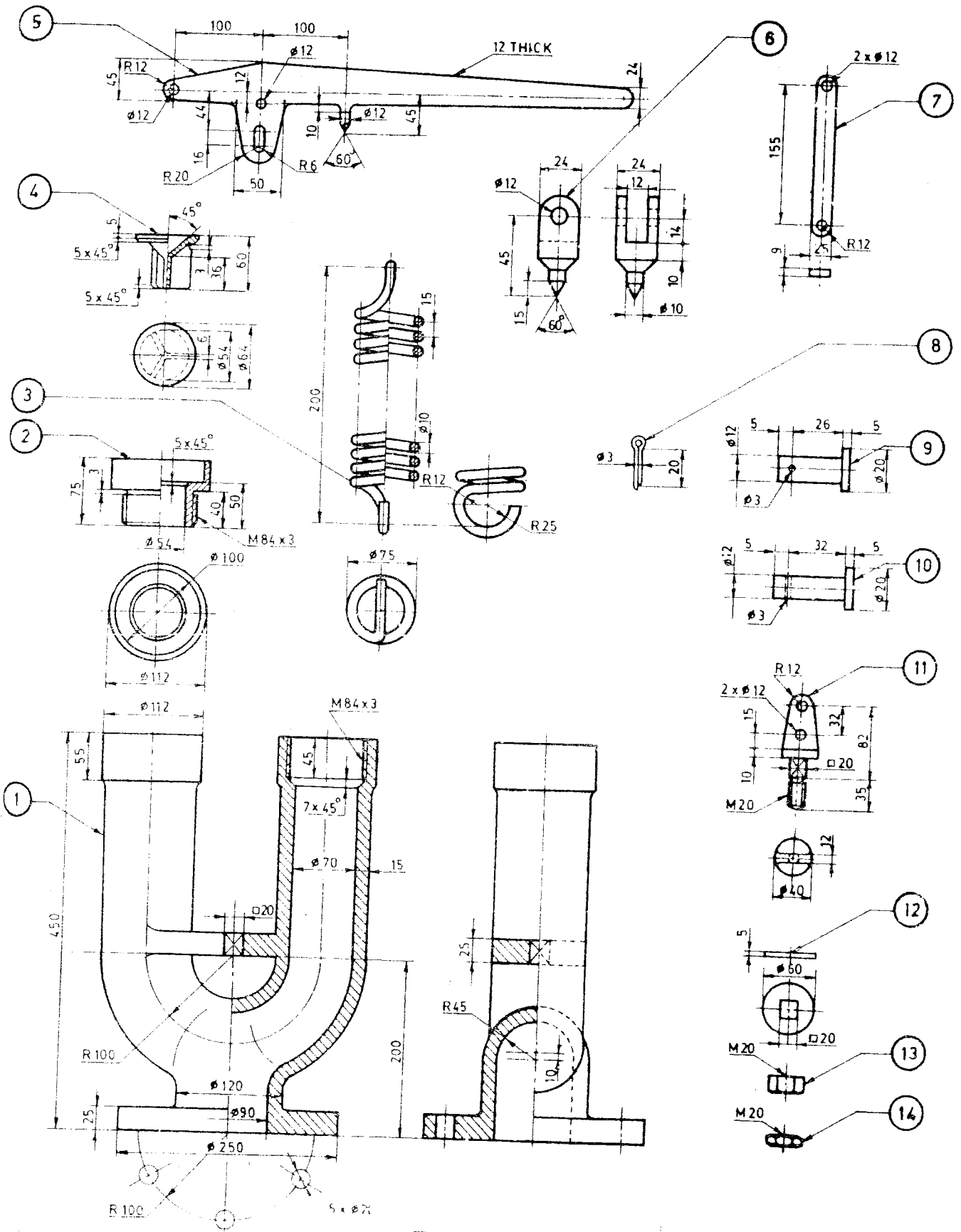


FIG 3 LATHE TAIL STOCK

(Contd....4)



MACHINE DRAWING

Fig. 4 RAMS BOTTOM SAFETY VALVE