



Fig.13.b. the design includes die selection, press capacity, strip layout, knock out arrangement etc.

- i) Sectional front view
- ii) View from the top view. Punch and punch holder removed position.
- iii) Left side view.

14.a) Design and draw any two views of a combination die for the component shown in Fig.14.a. The design should include press capacity, strip layout. Automatic stopping and feeding arrangement. (16marks)

(OR)

14.b) Design and draw any two views of a draw die for the final operation draw die. The design should include No. of draws, strip layout, draw radius, die clearance and ejecting mechanisms etc.

15 a) Illustrate the following (16marks)  
 i) Grinding fixtures ii) vise fixtures iii) boring fixtures

(OR)

15.b) Write short notes on the following  
 i) Double action draw die  
 ii) Fine blanking dies.  
 iii) Single minute exchange dies.

