

ROLL No:

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Total number of pages: [5]

Total number of questions: 06

B.Tech. || ME || 3rd Sem

Machine Drawing

Subject Code: BTME-303A | 303

Paper ID:

May 2018 (ISC)

RG/RP

2011 onwards

Time allowed: 3 Hrs

Max Marks: 60

Important Instructions:

- All questions are compulsory
- Assume any missing data

PART A (2×10)

All COs

Q. 1. Short-Answer Questions:

- (a) What is progressive dimensioning?
- (b) What are temporary fasteners?
- (c) What are multi-start threads? Where these are used and why?
- (d) Show the convention of a screw thread.
- (e) What do you mean by machining symbols and why they are used?
- (f) Give the symbols of fillet weld and seam weld.
- (g) Differentiate between lap and butt joint of a riveted plate.
- (h) Which type of thread is used in Screw Jack and why?
- (i) Draw the symbol of first angle projection symbol.
- (j) What is blow-off cock and where it is used?

PART B (5×2)

Q. 2. Sketch the following thread sections by giving all the standard proportions :--

- (i) Metric thread (ii) Butress thread (iii) Knuckle Thread

OR

Sketch three views of a hexagonal headed bolt of nominal diameter 20 mm and length 100 mm with a square nut and washer.

Q. 3. Sketch neatly, following types of Pipe Fittings :--

- i) Bend ii) Elbow iii) Tee iv) Plug v) Cross

OR

Draw free hand sectional front view of cotter joint.

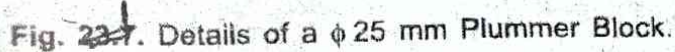
PART C (15×2)

Q. 4. Figure 1 shows the details of the Plummer Block. Assemble the components and draw the full sectional front view and top view.

OR

Figure 2 shows the details of feed check valve. Assemble the components and draw the full sectional front view and top view.

OR



6 HOLES, TAPPED M16, DEEP 17
ON 152 P.C.

6 HOLES, $\Phi 16$, ON $\Phi 152$ P.C.

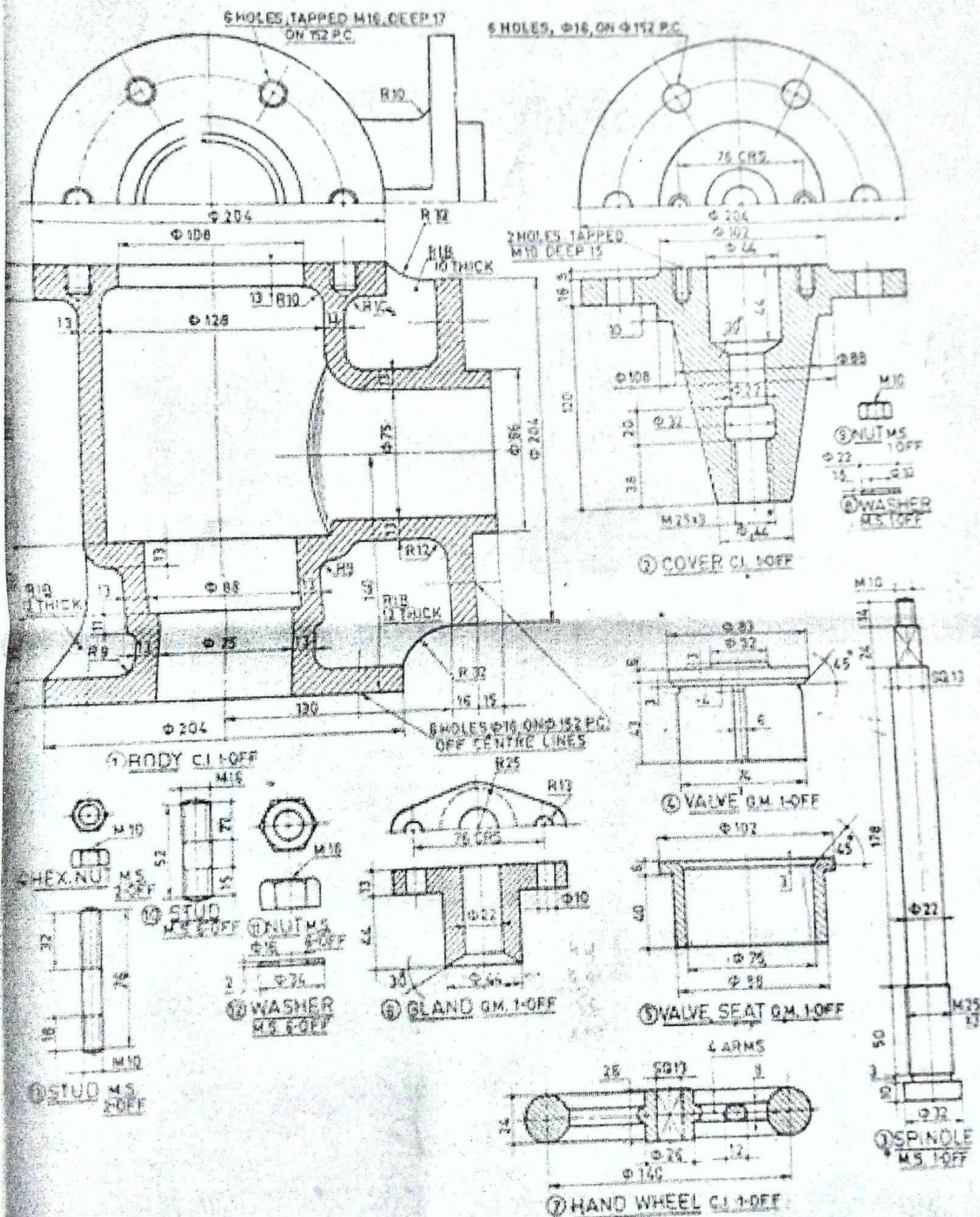


Fig 222 Details of a 75 mm Feed-check Valve (Third Angle Projection)

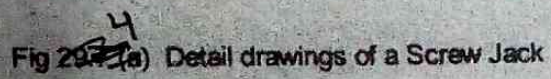


Fig 29.7 (a) Detail drawings of a Screw Jack