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Total No. of Pages : 03

Total No. of Questions : 07

B.Tech. (ME-2011 Batch) (Sem.-3rd)

MACHINE DRAWING

Subject Code : BTME-303

Paper ID : [A1140]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of NINE questions carrying TWO marks each.
2. SECTION-B contains FOUR questions carrying FOUR marks each and students has to attempt any THREE questions.
3. SECTION-C contains TWO questions carrying THIRTY marks each and students has to attempt any ONE questions.

SECTION-A

1. Answer briefly :

- (a) What do you mean by machining symbols and their importance?
- (b) Name the meaning of the following symbols :
 - (i) =
 - (ii) M
- (c) What do you mean by Tolerance? Show it with the help of a sketch.
- (d) Show the removed section with the help of a suitable sketch.
- (e) Show the Aligned system of Dimensioning.
- (f) Give the meaning of the following :

ϕ 48H7/P6.
- (g) What is meant by Diagonal Pitch incase of rivetted joints?
- (h) Define Right hand and Left hand Threads. Show it by a sketch.
- (i) What are fasteners. List them.

SECTION-B

(Free Hand Sketches Only)

2. Sketch the top view and sectional front view of a single riveted Lap Joint showing the dimensions in terms of 'D'.
3. Sketch the Knuckle Threads showing dimensions in terms of 'P'.
4. What is a Gib head key? Show it with the help of a sketch.
5. Draw the front view of a square headed Bolt along with a hexagonal nut and a washer of suitable dimensions.

SECTION-C

6. Fig. 1 shows the details of a Foot Step Bearing. Draw full sectional view of the assembly and simple plan. (30)

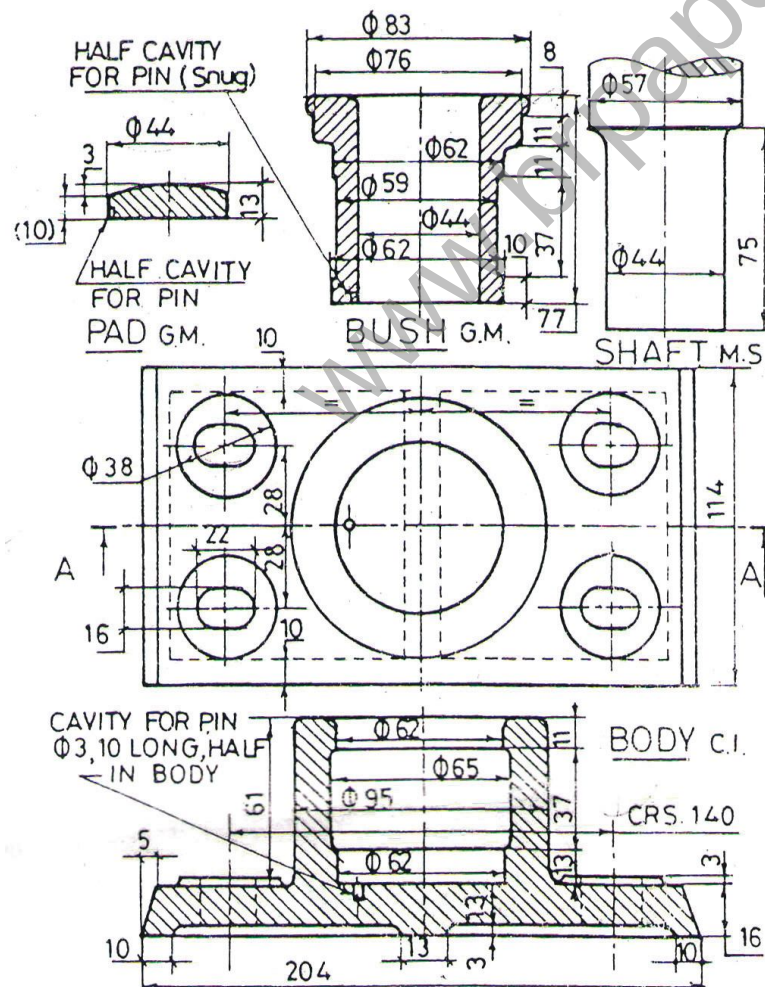


Fig. 1 Details of a Foot Step Bearing

7. Fig. 2 shows the details of a Hooke's Joint. Draw the elevation upper half in section of the assembly. Also give the bill of material. (30)

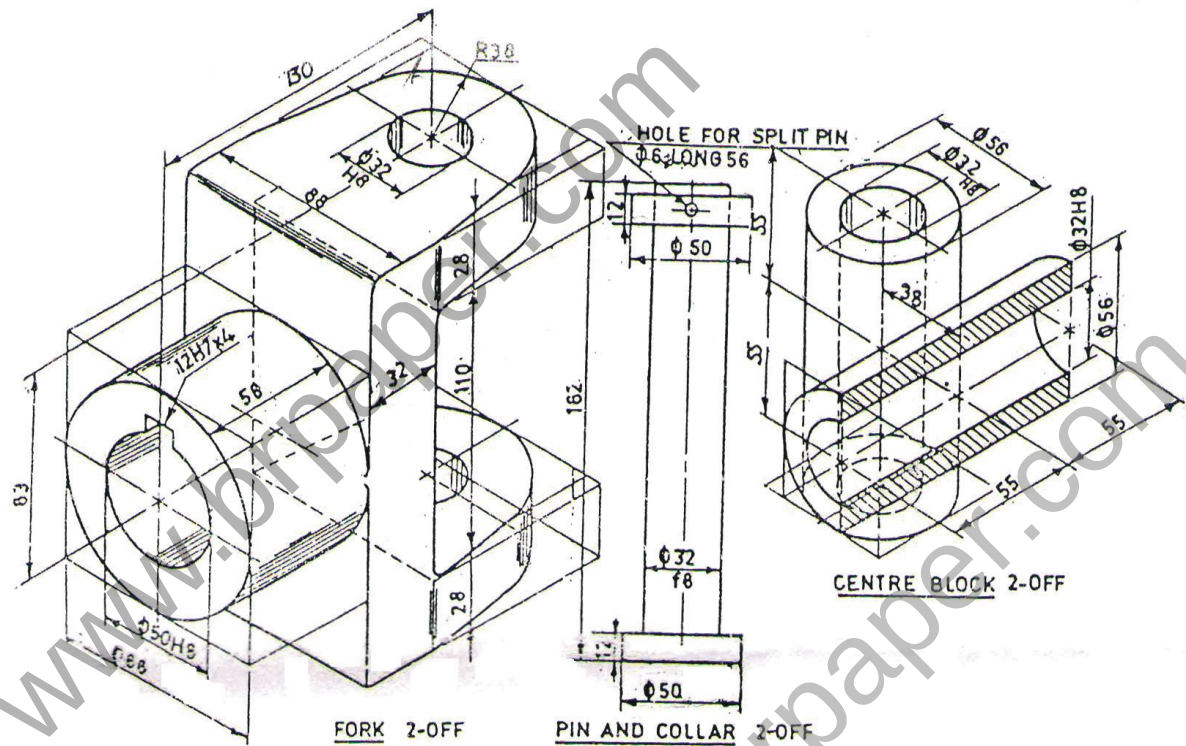


Fig. 2 Details of a Hooke's Joint or Universal Coupling