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(**R16**

Code No: R1622035

SET - 1

II B. Tech II Semester Regular Examinations, April - 2018 MACHINE DRAWING

(Com to ME, AME)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

- 2. Answer any Two questions in **Part-A**-10x2 = 20 marks
- 3. Question from **Part-B** is compulsory -50x1=50 marks

PART -A

- 1. Draw half sectional front view and top view of a solid journal bearing suitable (10M) for supporting a shaft of diameter 30 mm and mark the proportions.
- Draw three views of a Hexagonal headed bolt of nominal diameter 30 mm and Length 125 mm with a hexagonal nut and washer in place.
- Draw Sectional view from front and view from above of a Double Riveted zig (10M) zag lap joint to join plates of thickness 18 mm and provide all dimensions.

PART-B

The details of an air cock are shown in Fig. 1 Assemble the parts and draw, (i) half sectional view from the front, (ii) view from the right and (iii) the view from above.



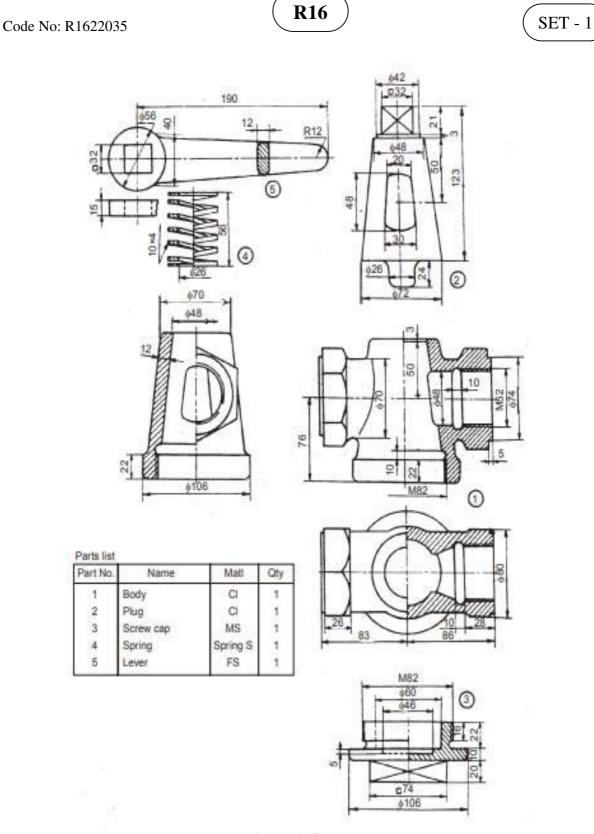


Fig. 1 Air Cock

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SET - 2

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PART –A

- 1. Two views of a taper sunk key positioned in a shaft of diameter 25mm and hub (10M) of diameter 50mm and mark dimensions on it.
- 2 Draw half sectional front view and top view of a bushed pin type flange (10M) coupling, indicating proportions to connect two shafts of diameter 25mm each.
- Draw three views of a Hexagonal headed bolt of nominal diameter 25mm and (10M) length 100mm with a hexagonal nut and washer in place.

PART-B

- Fig. gives the part drawings of Plummer block. Assemble all the parts and draw the following assembled views. (50M)
 - (a) Sectional front view (b) Top view (c) Sectional view from the left

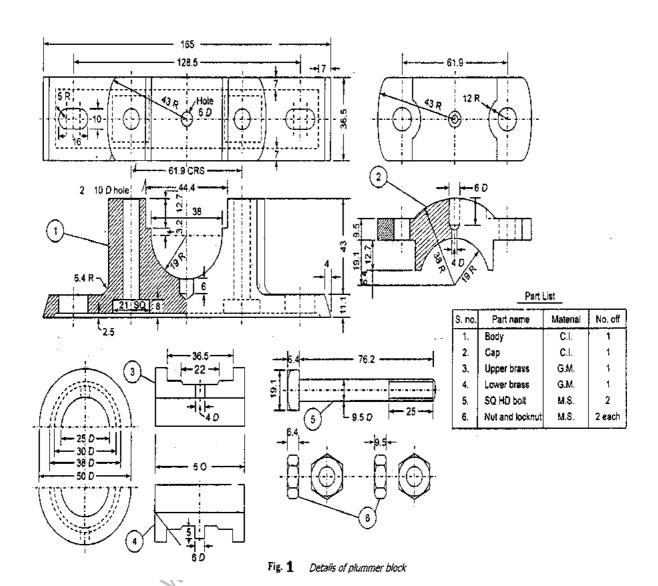
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SET - 2





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SET - 3

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Time: 3 hours Max. Marks: 70

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- 3. Question from **Part-B** is compulsory -50x1=50 marks

PART -A

- 1. Draw the sectional view from the front, and view from the top of a knuckle joint used to connect eye and fork end of diameter 50mm. (10M)
- 2 Sketch a socket and spigot pipe joint to connect two pipes of 50mm diameter each. The pipes are laid underground. Indicate proportionate dimensions of various parts of the joint. (10M)
- Draw a). Sectional view from the front and b). View from the above, of the double riveted, double strap, zig-zag butt joint, to join plates of thickness 12mm.

PART-B

Figure shows the details of a machine vice. Assemble the parts and draw, (i) sectional viewfrom the front, (ii) view from above and (iii) view from the right. Use suitable scale.

SET - 3 R16 Code No: R1622035 M8 OIL HOLE, DIA 10 OIL HOLE 112 66 83 SQ THD, DIA 25×3 LH 4 HOLES, M8 LH SQ THD DIA 25×3 R20 215 75 393 100 (4) 4 HOLES, DIA 8 CSK DIA 16 Parts list Part No. Name Matl Qty Base CI 2 Movable jaw CI 3 Sliding block CI 1 4 Guide screw MS 1 (2) 5 Serrated plate MS 2 6 CSK Screw 34 long MS 4 7 CSK Screw 30 long MS 2 2 HOLES, DIA 8 8 CSK Screw 50 long MS 2 CSK DIA 16 9 MS Washer ¢20×6 10 MS Nut M20

Fig. Machine vice



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Code No: R1622035 (R16) (SET - 4)

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Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

- 2. Answer any Two questions in **Part-A**-10x2 = 20 marks
- 3. Question from **Part-B** is compulsory -50x1=50 marks

PART -A

- 1. Sketch the required views of Oldham coupling and indicating proportions, used (10M) to connect two shafts, each of diameter 30 mm.
- Draw three views of a Hexagonal headed bolt of nominal diameter 30mm and (10M) length 120mm with a hexagonal nut and washer in place.
- Two square rods of side 50 mm each, are connected by a cotter joint with a gib. (10M) Sketch the following views of the assembly:
 - (a) half sectional view from the front and (b) view from the side.

PART-B

- 4 Assemble the parts of the piston, shown in Fig. and draw the following views: (50M)
 - (i) Sectional view from the front,
 - (ii) Half sectional view from the right, and
 - (iii) Sectional view from above



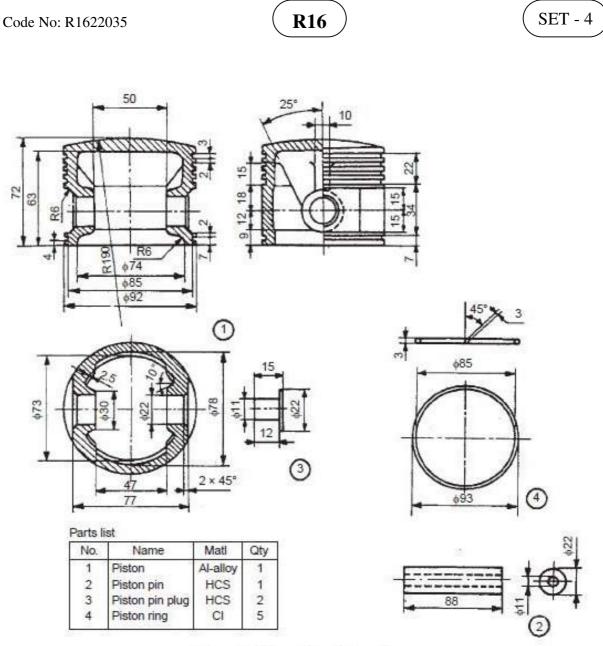


Fig. Piston of a petrol engine