

II B. Tech II Semester Regular Examinations, May/June - 2015
MACHINE DRAWING
(Com. to ME, AME, MM)

Time: 3 hours

Max. Marks: 70

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- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **TWO** question from **Part-A**
3. **Part-B** is compulsory
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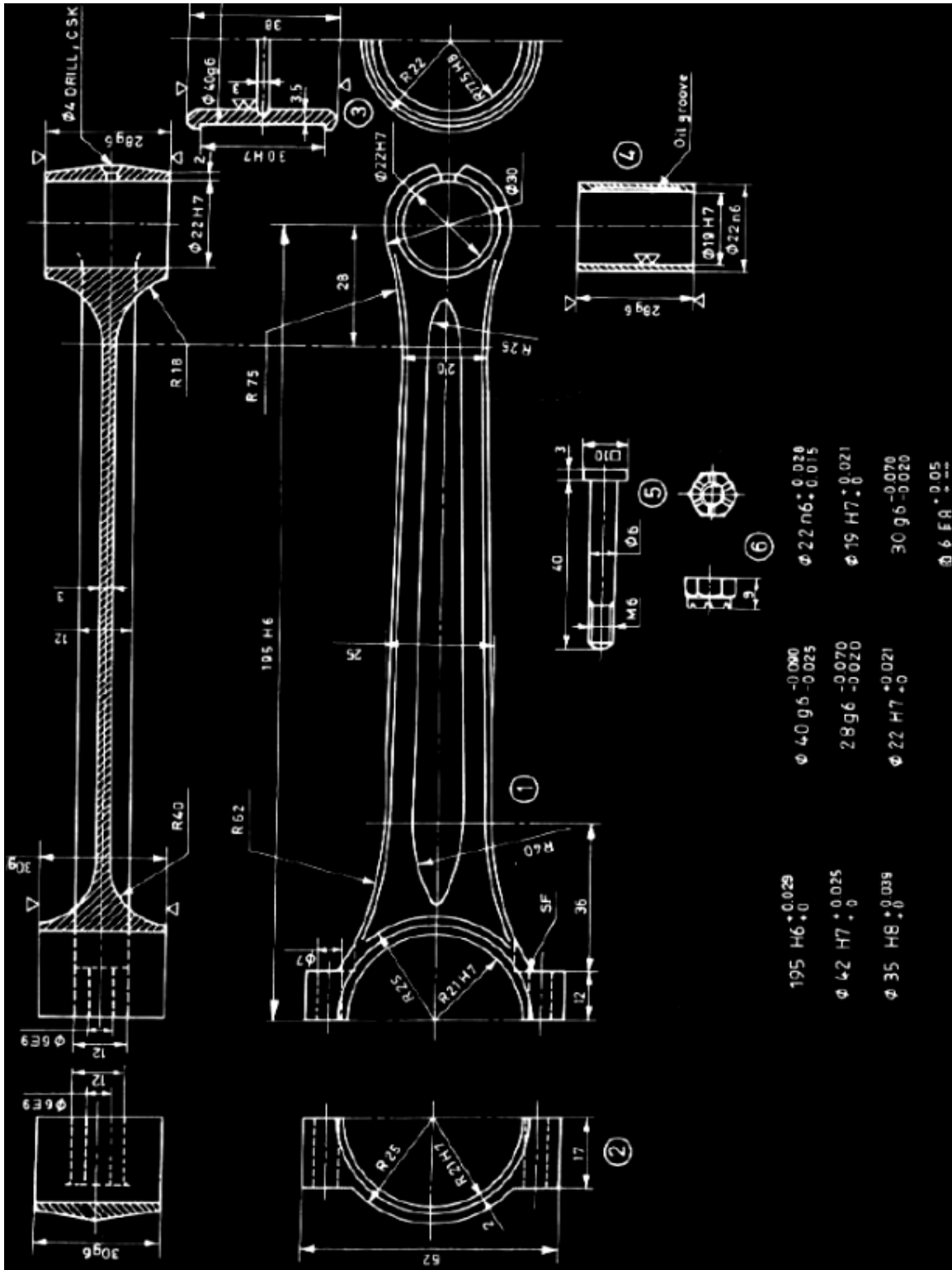
PART-A

1. Draw the sectional front view and top view of knuckle joint with sleeves to connect shafts of 35 mm. [11]
2. Draw the sectional front view and top view of single riveted butt joint with double straps chain type to join two plates of 20 mm thickness each. [11]
3. Sketch the following thread profiles for a nominal diameter of 25 mm and pitch 3 mm and give their applications:
(a) BSW thread, (b) Buttress thread (c) Square thread, (d) ACME thread and (e) Worm thread. [11]

PART-B

4. Details of the petro engine connecting rod are shown in figure: Assemble all parts and draw
 - i) Front view.
 - ii) Sectional plan
 - iii) Right side view. [48]





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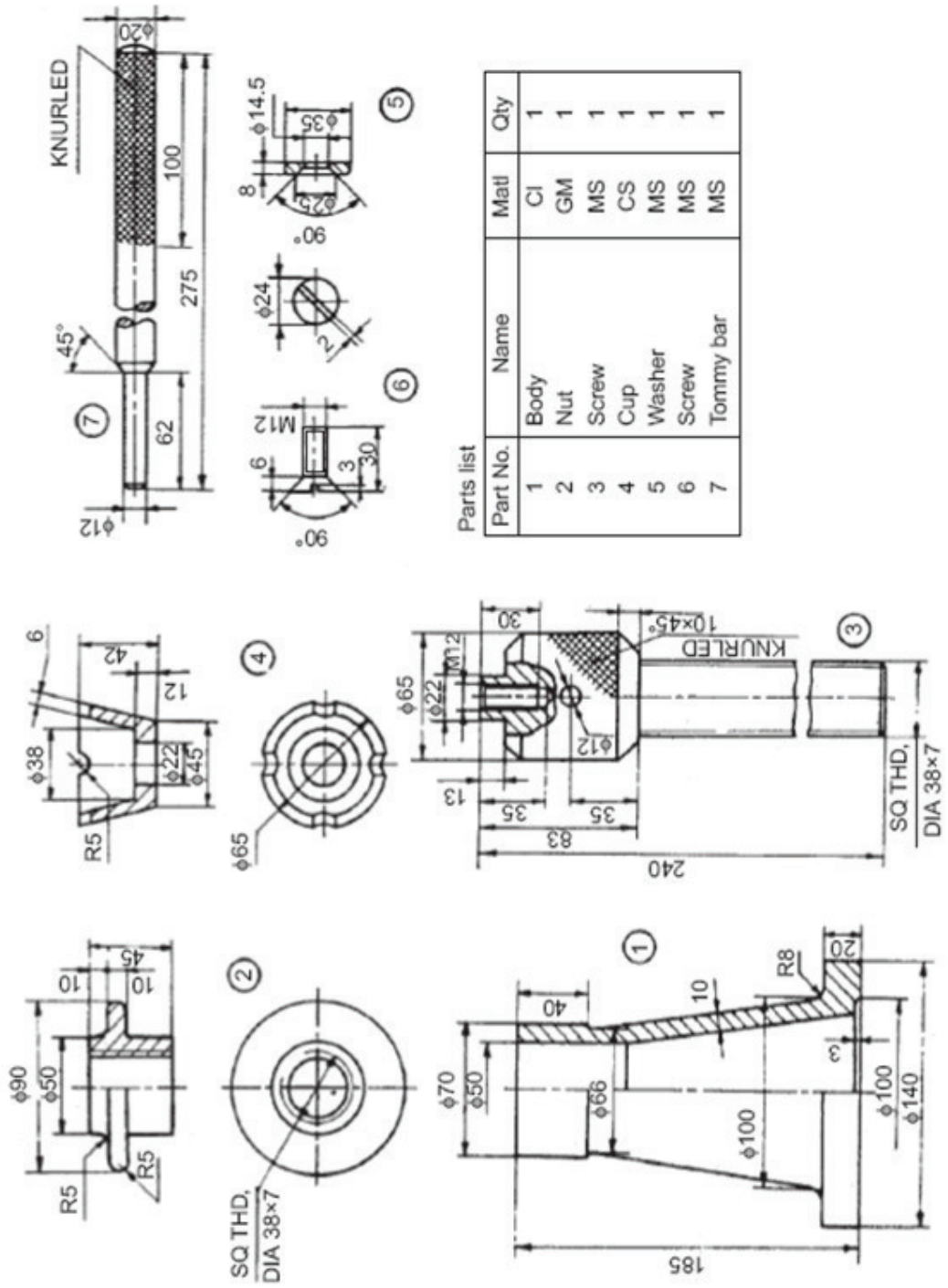
PART-A

1. Draw half sectional front view and the top view of an universal coupling connecting two shafts of 30 mm diameter each. [11]
2. Draw the sectional front view and top view of double riveted butt joint with single strap Zig-zag type to join two plates of 20 mm thickness each. [11]
3. a) Sketch the following forms of nuts, with proportions marked:
i) flanged nut, ii) cap nut, iii) dome nut, iv) capstan nut
b) Draw the three views of a hexagonal headed bolt of nominal diameter 25 mm and length 100 mm with a hexagonal nut and washer. [5+6]

PART-B

4. Assemble all the parts of screw jack shown in figure. Draw the following views. [48]
 - a) Half sectional view from the front
 - b) Top view





Parts list

Part No.	Name	Matl	Qty
1	Body	CI	1
2	Nut	GM	1
3	Screw	MS	1
4	Cup	CS	1
5	Washer	MS	1
6	Screw	MS	1
7	Tommy bar	MS	1



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Answer any two of the following

2x11=22

1. a) Sketch the following forms of nuts, with proportions marked.
i) Flanged nut ii) Capstan nut.
b) Sketch the following conventional materials
i) Bronze ii) Cast Iron iii) Concrete. [5+6]
2. Draw the half sectional front view and side view of bushed pin type flange coupling to connect two shafts each of diameter of 40 mm. [11]
3. Draw the half sectional elevation and side view of Cotter and sleeve joint used to connect two rods of 50 mm diameter. [11]

PART B

4. Assemble all the parts of machine vice shown in below. Draw the following views.
a) Sectional front view [48]
b) Top view.



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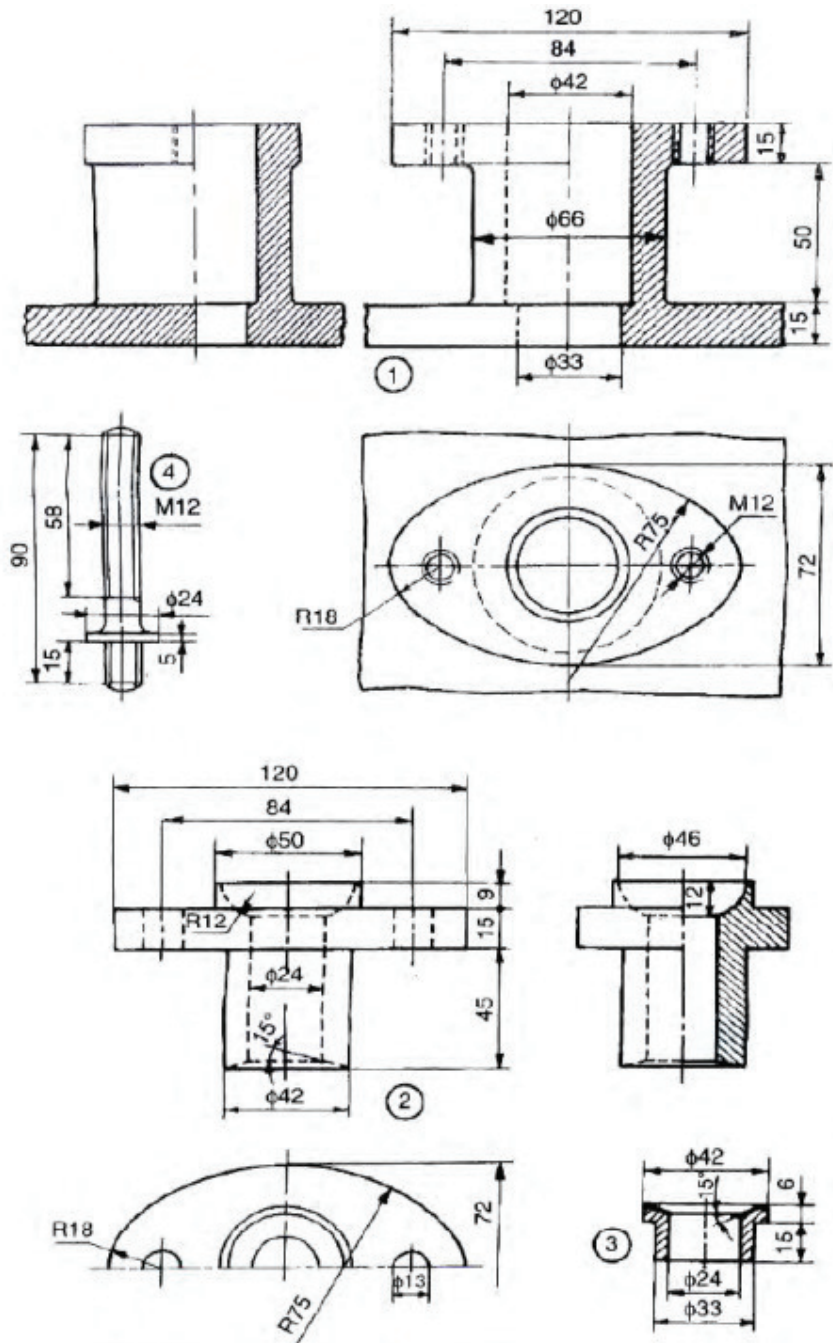
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1. Draw the sectional front view and top view of double riveted, double strap, chain butt joint with plate thickness 20 mm. [11]
2. Sketch neatly; giving proportionate dimensions the eye foundation bolts of diameter 25 mm. [11]
3. Draw half sectional front view with top half in section and side view of a muff coupling connecting two shafts of 40 mm diameter each. [11]

PART B

4. Assemble all parts of the stuffing box shown in Figure and draw [48]
 - i) Half sectional view from the front (left half in section).
 - ii) Half sectional view from the right.
 - iii) Top view.





Parts list

Part No.	Name	Matl	Qty
1	Body	CI	1
2	Gland	Brass	1
3	Bush	Brass	1
4	Stud	MS	2
5	Nut, M12	MS	2

