

Code No: R059210305

Set No. 1

II B.Tech I Semester Regular Examinations, November 2007
MACHINE DRAWING
(Common to Mechanical Engineering, Mechatronics, Production
Engineering and Automobile Engineering)

Time: 3 hours

Max Marks: 80

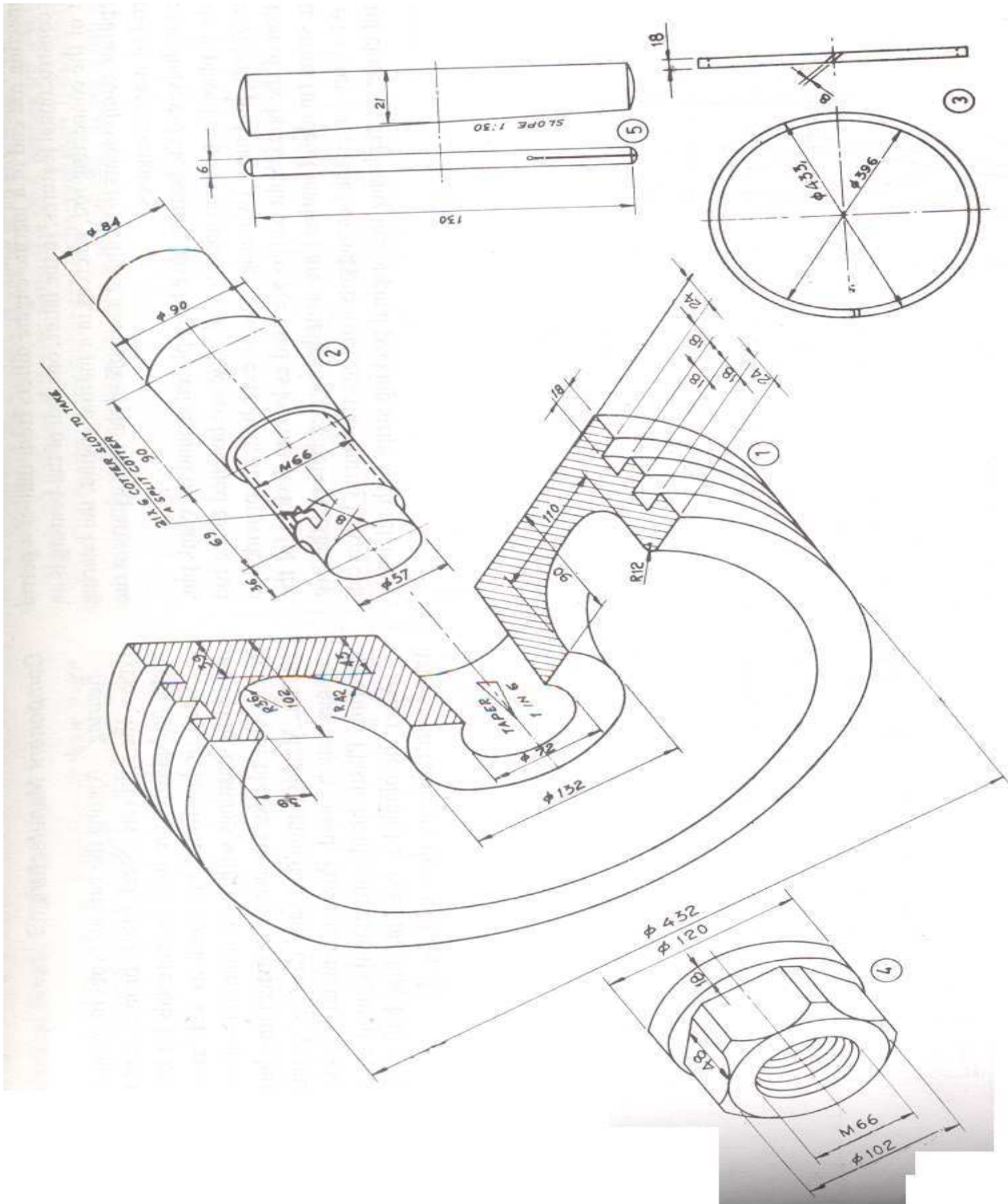
Note: Answer any TWO Questions from PART-A
PART-B is compulsory

PART-A (Marks:30)

1. Draw hexagonal headed bolt and nut with dia of bolt as 30 mm.
2. Draw sectional front view and side view of Cotter joint with socket and spigot ends taking $d=30$ mm.
3. Draw sectional front view and top view of double riveted, zig zag joint with dia of rivet as 10 mm.

PART-B (Marks:50 marks)

4. Draw front view and sectional side view of the assembled locomotive piston rod from the figure 4 given along with the part list. [25+25]



2 of 3 Figure 4

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Set No. 2

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Time: 3 hours

Max Marks: 80

Note: Answer any TWO Questions from PART-A
PART-B is compulsory

PART-A (Marks:30)

1. Draw front view and side view of a hexagonal headed bolt with a nut and a washer in position with dia of bolt as 30 mm.
2. Draw an eye bolt with D=30 mm with circular cross section.
3. Draw sectional front view and top view of the triple riveted butt joint with double straps(zig zag type) with dia of Rivet as 18 mm.

PART-B (Marks:50 marks)

4. Draw the sectional front view (left half in section) and top view of the assembled swivel bearing from the given figure 4 and part list. [30+20]

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Set No. 3

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Max Marks: 80

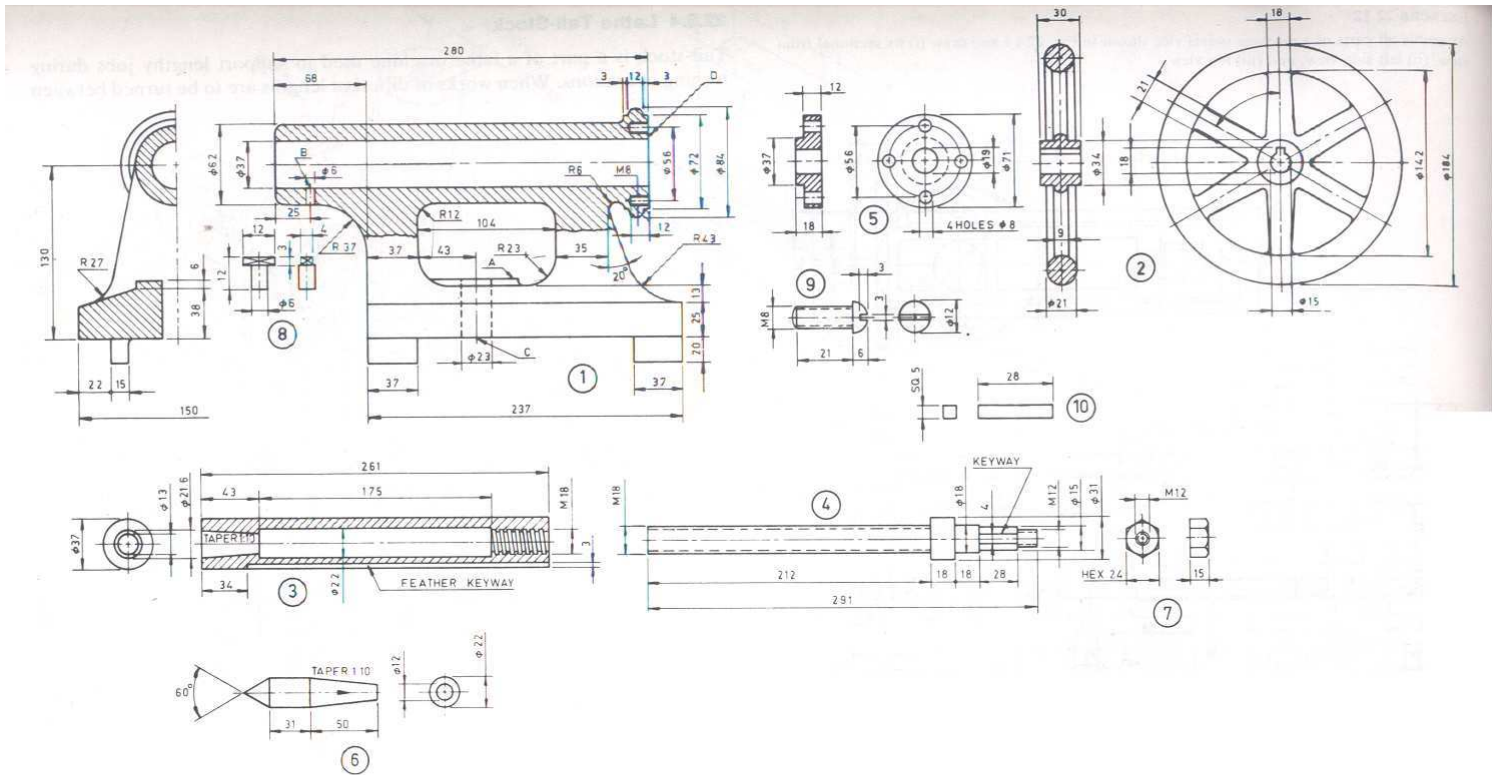
Note: Answer any TWO Questions from PART-A
PART-B is compulsory

PART-A (Marks:30)

1. Draw at least four types of thread profiles taking pitch as 20 mm.
2. Draw sectional front view and side view of solid flanged coupling with D=80mm.
3. Draw the sectional front view and top view of double row, zig-zag combined lap and butt joint if the rivet diameter as 16 mm.

PART-B (Marks:50 marks)

4. Draw the sectional front view and Right side view of the assembled lathe tail stock from the given figure 4 and part list. [30+20]



Part List

Part No.	Name	Material	Quantity
1	Tail-stock body	C.I.	1
2	Hand wheel	C.I.	1
3	Barrel	C.I.	1
4	Spindle	M.S.	1
5	Spindle bearing	C.I.	1
6	Centre	Cast steel	1
7	Nut	M.S.	1
8	Feather	M.S.	1
8	Feather	M.S.	1
9	Set screw	M.S.	4
10	Key	M.S.	1

Lathe tail-stock

Figure 4

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Set No. 4

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Max Marks: 80

Note: Answer any TWO Questions from PART-A
PART-B is compulsory

PART-A (Marks:30)

1. Draw at least four types of thread profiles taking pitch as 20 mm.
2. Draw two views of parallel sunk key with D=30 mm.
3. Draw High button head, button head and cone head type of rivets with a dia of 18 mm.

PART-B (Marks:50 marks)

4. Draw the sectional top view and front view of the petrol engine connecting rod from the given figure 4 and part list. [25+25]

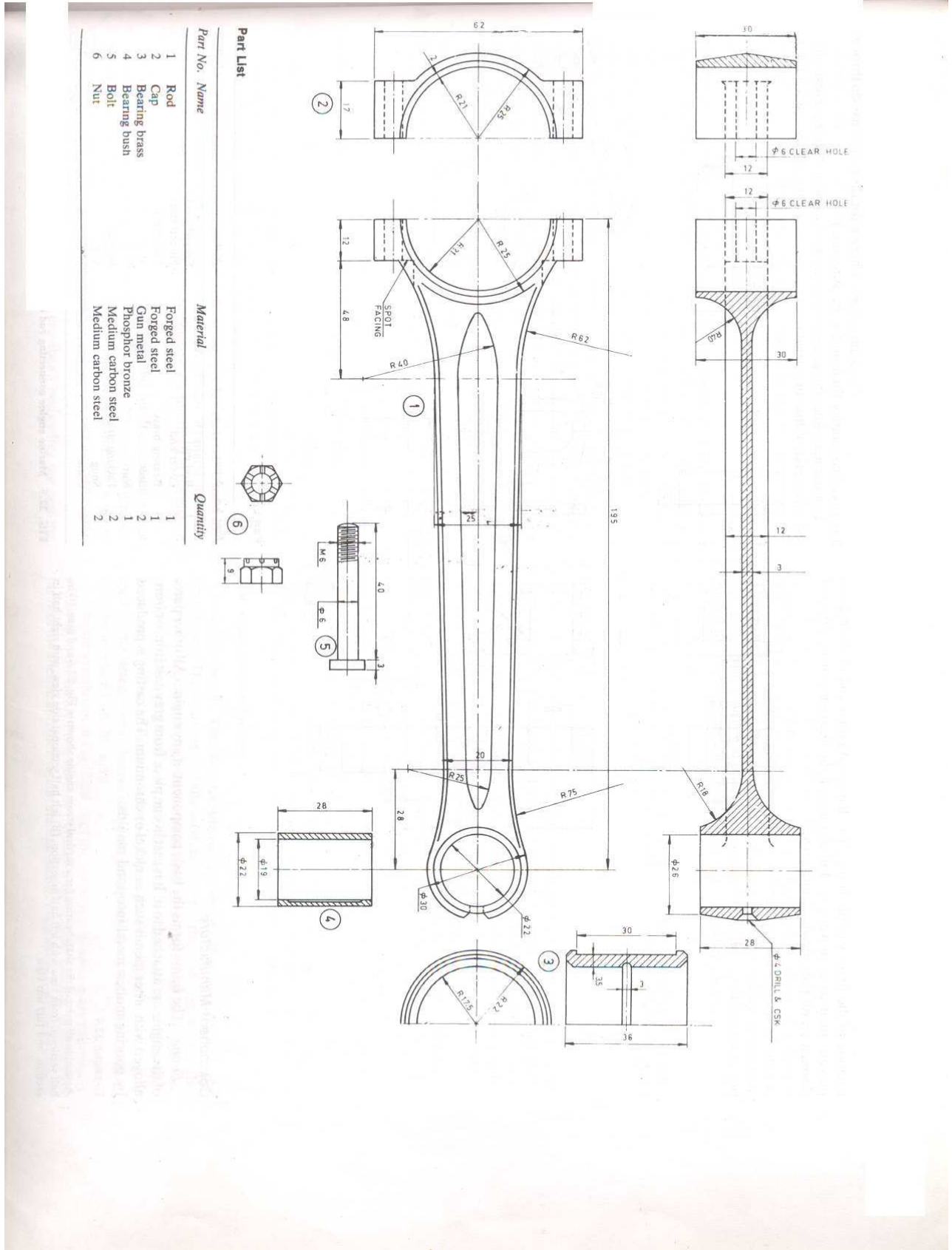


Figure 4

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Set No. 4
