

CODE NO: R09220305

R09

SET No - 1

**II B.TECH - II SEMESTER EXAMINATIONS, APRIL/MAY, 2011**  
**MACHINE DRAWING**  
**(COMMON TO AUTOMOBILE ENGINEERING, MECHANICAL ENGINEERING,**  
**MECHATRONICS)**

Time: 3hours

Max. Marks: 75

Answer any TWO questions from PART – A  
PART – B is compulsory

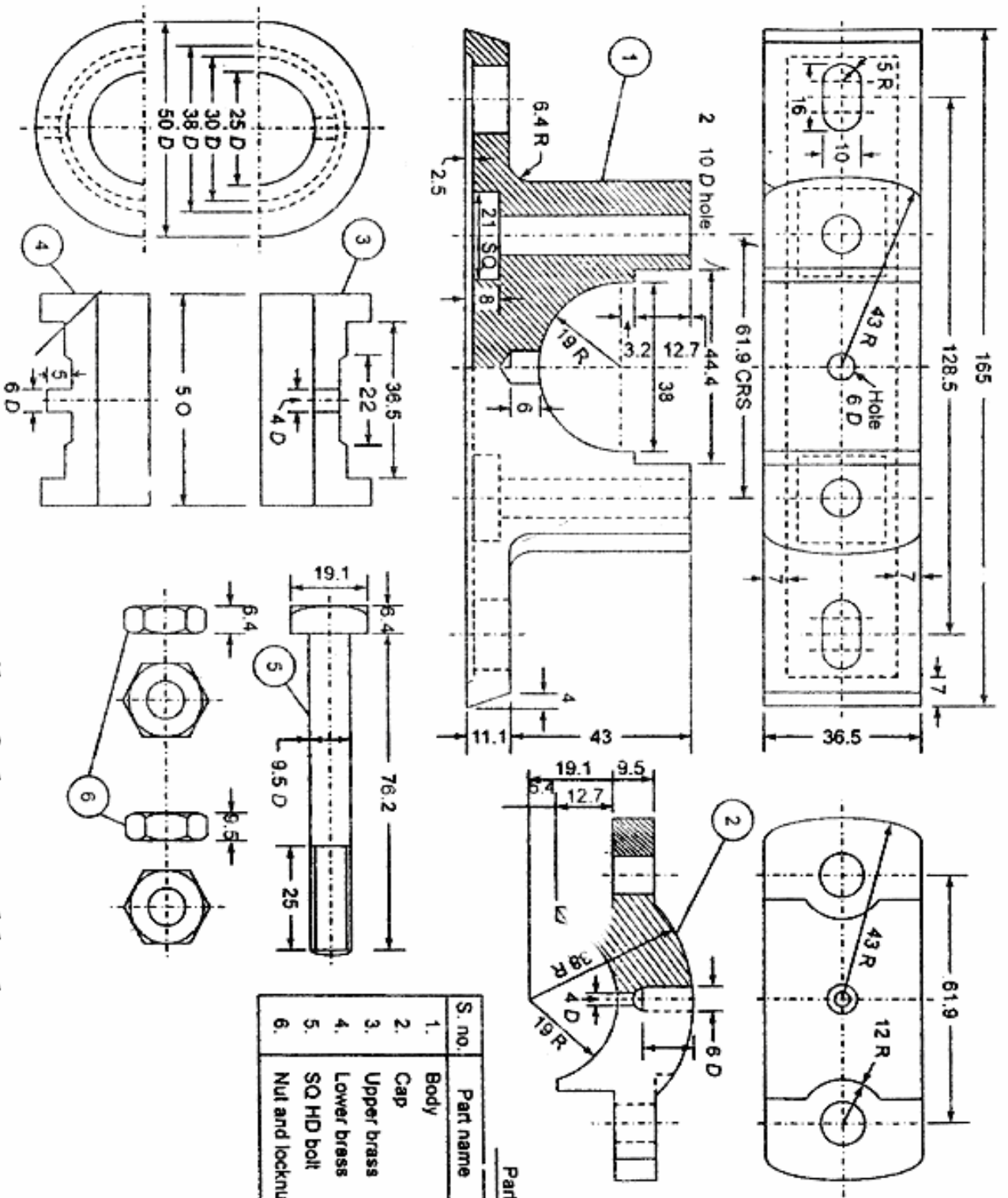
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**PART – A**

1. Draw the double riveted double strap zig – zag butt joint to join 12 mm plates. [15]
2. Sketch the following with drawing proportions  
a) Buttress thread.  
b) Square thread.  
c) Worm thread. [15]
3. Represent two views of hexagonal nut and square nut with proportions take the diameter of the bolt as 30 mm. [15]

**PART – B**

4. Figure gives the part drawings of Plummer block. Assemble all the parts and draw the following assembled views:  
a) Sectional front view  
b) Top view.



Part List

S. no.	Part name	Material	No. off
1.	Body	C.I.	1
2.	Cap	C.I.	1
3.	Upper brass	G.M.	1
4.	Lower brass	G.M.	1
5.	SO HD bolt	M.S.	2
6.	Nut and locknut	M.S.	2 each

Details of plummer block

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SET No - 2

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**Time: 3hours**

**Max. Marks: 75**

**Answer any TWO questions from PART – A**  
**PART – B is compulsory**

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**PART – A**

1. Draw a proportionate diagram of Double riveted double strap chain type butt joint two connect plate of 20 mm size. [15]
2. Draw two views of the Protected flange coupling to connect two shafts of 50 mm diameter. [15]
3. Draw two views of the Solid flange coupling to connect to shafts of 25 mm diameter. [15]

**PART – B**

4. Draw the following view of the given tail stock details.
  - a) Sectional Front View
  - b) Side view from left.



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**Time: 3hours**

**Max. Marks: 75**

**Answer any TWO questions from PART – A**  
**PART – B is compulsory**

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**PART – A**

1. Draw sectional front view and top view of double riveted, single strap, chain butt joint to join plates of thickness 10 mm. [15]
2. Draw gib and cotter joint suitable for joining 40 mm square rods. [15]
3. Draw two views of a Food step bearing for a shaft 100 mm diameter. [15]

**PART – B**

4. Draw the following views at assembly of eccentric mechanism.
  - a) Half Sectional Front View
  - b) Side view from left.

FIRSTRANKER



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**Time: 3hours**

**Max. Marks: 75**

**Answer any TWO questions from PART – A**  
**PART – B is compulsory**

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**PART – A**

1. Draw two views of a Single strap butt joint of two rows zig – zag to connect two plates of 9 mm thick. [15]
2. Sketch a Knuckle joint showing sectional front view and top view for connecting two rods of 40 mm diameter. [15]
3. Draw two views of the Flexible flange coupling to join two shafts of 30 mm diameter. [15]

**PART - B**

4. Draw the following views of assembly of pipe vice.
  - a) Sectional front view.
  - b) Top view.

