

# SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E – Mechanical & Production

Title of the paper: Machine Drawing

Semester: III

Sub.Code: 16307 (2003/2004/2005)

Date: 26-04-2007

Max. Marks: 80

Time: 4 Hours

Session: AN

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## PART – A (30)

Answer ALL the Questions

1. Draw the conventional representation of the following.  
a) Leaf spring with eyes b) Spur gears c) internal threads  
d) splined shaft. (5)
2. Describe the hole basis system and shaft basis system. State why hole basis system is preferable. (5)
3. Draw the top half sectional elevation of the cotter joint with sleeve shown in figure 1. (10)
4. Draw the full sectional elevation of the flanged coupling shown in fig 2. (10)

## PART – B (50)

Answer All the Questions

5. The details of the screw jack are shown in figure 3. Assemble the parts of the screw jack and draw the following views.
  - i. Front view in full section (30)
  - ii. Top view (10)
  - iii. Left end view (10)

DRAW DIAGRAMS