

Code No: NR-210305

NR

**II B.Tech I Semester – Supplementary Examinations April/May-2005**  
**MACHINE DRAWING**

**(Common to Mechanical Engineering, Mechatronics,  
Aeronautical Engineering and Production Engineering)**

**Time: 3 hours**

**Max. Marks: 80**

**Answer Q.No.2 and any three from Question No.1**

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1. Answer THREE of the following:
  - a) Draw sectional views of the following thread profile. Take pitch=5mm  
(i) Whitworth thread                      ii) B.A.thread
  - b) Draw sectional front view and top view of a double revitted Zig Zag lap joint to join two plates of thickness  $t=10\text{mm}$
  - c) Draw two views of a rigid flange coupling to connect two shafts of diameter 30mm. Use proportionate dimensions.
  - d) Draw sectional front view and side view of a socket and spigot pipe Joint. Diameter of pipe=150mm.
  - e) Draw front sectional view and top view of Gib and cotter Joining 40mm square bars.
2. Details of eccentric are given in figure draw the following views of the eccentric with all parts assembled together. (32 marks)
  - (i) Sectional front view                      (ii) side view.

**Parts List:**

Part No.	Qty	Name	Material
1	1	Strap	CI
2	1	Sheave	CI
3	2	Shim	Brass
4	1	Strap	CI
5	2	Bolt with nuts	MS

