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SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E-MECH/M&P/AERO

Title of the Paper: Machine Drawing

Max. Marks: 80

Sub. Code: 6C0067

Time: 3 Hours

Date: 22/11/2010

Session: FN

PART - A

Answer ALL the Questions

1. Compute the fundamental deviations for a circular hole of 40mm diameter finished to H7 tolerance. (IT 7 magnitude of tolerance is 16i and 40mm lies in the diameter step of 30mm and 50mm)
(10)
2. Draw the front and top view of ISO threaded hexagonal bolt 150mm long, 24mm diameter and a thread length of 60mm with a hexagonal nut. Indicate all the proportions and the actual dimensions.
(10)
3. (a) Draw the surface texture symbol with all the characteristics.
(b) Explain position tolerance with suitable diagram. (5)
4. Draw the conventional representation for bevel gears and radial ribs.
(5)

PART – B

5. Draw the following views of the assembled tail stock using the given part drawings shown in figure – 1.
(a) Front view (35)
(b) Top view (15)

