B.Tech. MECHANICAL ENGINEERING (BTMEVI)

01813

Term-End Examination

December, 2012

BIME-003 : MACHINE DRAWING

Time : 3 Hours   *Maximum Marks : 70*

Note :   *Question no. 9 is compulsory. Attempt any four questions from remaining (Q. 1 to Q. 8).*

1. Describe the general rules of dimensioning with   **10** sketches.

2. Compare third angle projection with first angle   **10** projection. Draw their symbols and show clearly the difference between the two with the help of a drawing in three views.

3. Draw any five forms of threads.   **10**

4. Draw front view of knuckle joint used to connect   **10** rods of 25 mm diameter. '

5. Draw front view of flange coupling used to   **10** connect two shafts of 40 mm diameter.

6. Draw top view and sectional front view of a single riveted lap joint. The thickness of the plate is 10 mm.   **10**

7. Draw conventional representation of spur gear assembly.   **10**

8. Write down the commands for drawing a circle with centre (50, 50) and radius 65 units in Auto CAD.   **10**

9. Details of stuffing box are given below. Draw the front view full in section for the assembly.   **30**

GLAND
(C.I.) 1-OFF

STUFFING BOX
(G.I.) 1-OFF

BUSH
(G.M.) 2-OFF

STUD
(M.S.) 4-OFF

SHAFT
(M.S.) 1-OFF