DIPLOMA IN MECHANICAL ENGINEERING (DME) / ADVANCED LEVEL CERTIFICATE COURSE IN MECHANICAL ENGINEERING (DMEVI / ACMEVI)

Term-End Examination

00185

December, 2014

BME-034 : MACHINE DRAWING

Time : 2 hours   *Maximum Marks : 70*

Note : *Attempt* **all** *questions.*

1. Answer any *eight* of the following questions :   *8×2=16*
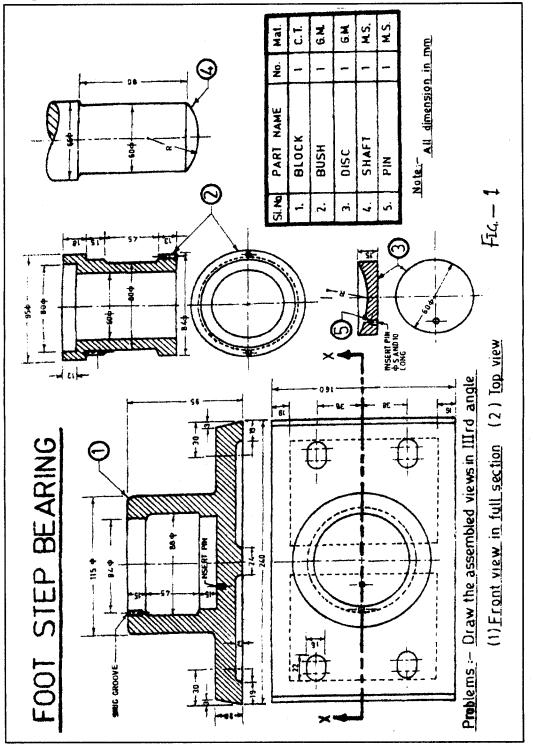
    (a) What are the types of Bolts ? Draw any four.

    (b) The standard size of drawing sheet A2 is _____ and _____ mm.

    (c) The lower size case of letter size is _____ .

    (d) What is orthographic projection ? Explain with a figure.

    (e) Differentiate between first angle projection and third angle projection.

    (f) Draw the symbol used for cast iron.

    (g) Draw the profile of Acme thread and Buttress thread.

    (h) Draw any four keys used in machine drawing.

    (i) Draw a continuous line used in machine drawing.

    (j) Explain the objective of machine drawing with a suitable figure.

2. Two plates 16 mm thick are to be joined by double riveted Butt joint. Draw the front view and top view.   *24*

OR

Draw the front view and top view of double rivetted Lap joint taking the plate thickness of the plates to be joined as 16 mm.

3. Figure 1 shows the part of foot-step bearing. Draw the assembled view in IIIrd (Third) angle projection. *20+10=30*

   (i)   Front view in full section

   (ii)   Top view

Fig. — 1

Sl.No.	PART NAME	No.	Mat.
1.	BLOCK	1	C.I.
2.	BUSH	1	G.M.
3.	DISC	1	G.M.
4.	SHAFT	1	M.S.
5.	PIN	1	M.S.

Note :- All dimension in mm

FOOT STEP BEARING

Problems :- Draw the assembled views in IIIrd angle
(1) *Front view in full section*   (2) Top view