No. of Printed Pages : **4 + Drawing Sheet**

BME-034

05942

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

Term-End Examination

December, 2011

BME-034 : MACHINE DRAWING

Time : 2 hours *Maximum Marks : 70*

Note : Answer all questions :

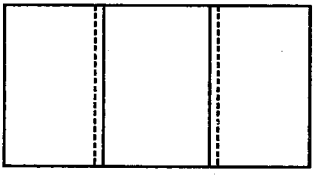
1. Answer *any seven* of the following questions : **7x2=14**

   (a) What do following lines represent on a drawing ?

   (i) broken line with short dashes and of medium thickness.

   (ii) chain line, thick at ends and thin elsewhere.

   (b) Draw the possible front view for the plan.

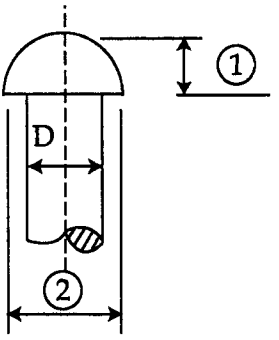


(c) In an Acme thread the width of the thread at the top (i.e at major dia) is _____.

(d) A hole through the length of square section bar is threaded. Show the end view.

(e) The width across the flat of a hexagonal nut is _____. (in terms d, the major dia.)

(f) A snap head rivet is shown. Give dimensions 1 and 2.



(g) The diagonal pitch in a riveted joint is the minimum distance between rivet hole centres in adjacent rows of rivet in _____ riveting.

(h) Which key has it bottom surface curved to shaft radius ?

(i) Saddle key

(ii) Wood ruff key

(iii) Jib key

(i) Name three parts of a knuckle joint.

2. An M 12 × 1.25 bolt has 30 mm long shank which is threaded over half the length from bottom. Draw front and top views. 28

OR

Two 12 mm thick plates are joined double riveted lap joint of zig zag type. Draw front and top views.

3. Fig. 1 shows a V-block. Draw 28

(a) sectional front view

(b) sectional side view

(c) top view in full

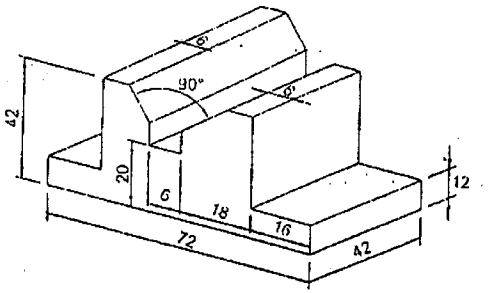


Fig. 1

OR

Draw the front view and plan of bearing cover in Fig. 2. No sectioning required.

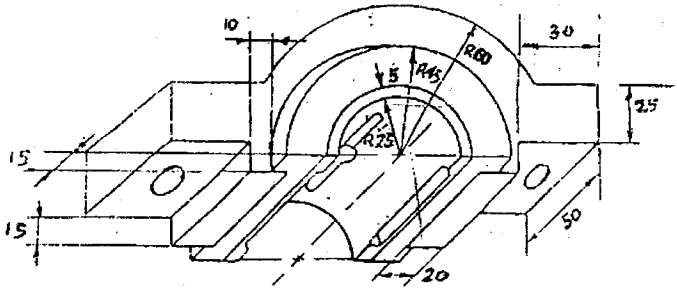


Fig. 2