No. of Printed Pages : 3

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

Term-End Examination

December, 2016

BME-034 : MACHINE DRAWING

Time : 2 hours

00963

Maximum Marks: 70

 $7 \times 2 = 14$

Note: Attempt all questions.

- 1. Answer any seven questions.
 - (a) The area of A0 size drawing sheet is $____ m^2$.
 - (b) In the following pencils, indicate soft to hard : 2B, 2H, HB
 - (c) Title block in the drawing sheet is placed at
 - (i) Right hand side bottom
 - (ii) Left hand side bottom
 - (iii) Left hand side top
 - (d) The pitch is equal to _____ D, where D is the diameter of rivet, and _____ D is the margin.
 - (e) Washer Dimensions for M12 screw is D _____ mm, d _____ mm, t _____ mm.
 - (f) In square thread, thread width is _____ P and thread depth is _____ P, where P is pitch.
 - (g) First angle projection is represented on the drawing sheet by the symbol
 - (h) In a Double start lead screw, diameter is 50 mm and pitch is 10 mm. If the nut makes one revolution clockwise, how much is the movement ?

1

- (i) 10 mm (ii) 50 mm (iii) 20 mm (iv) 25 mm
- (i) Two methods of Dimensioning used in the drawings are
 - (i) _____ (ii)

BME-034

P.T.O.

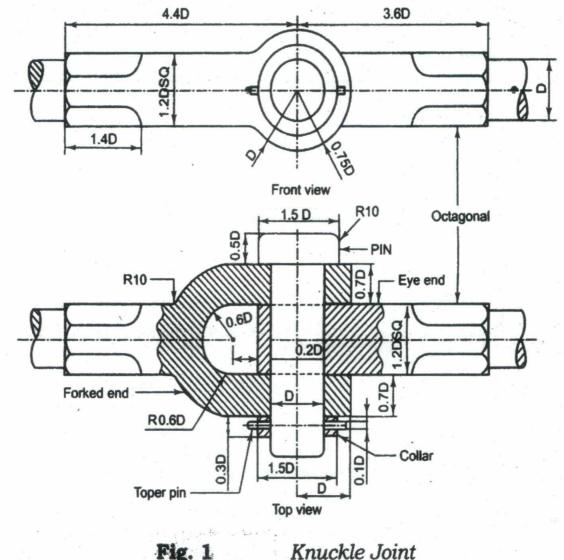
BME-034

2. Draw Sectional Front View and Top View for a Double rivet zig-zag type lap joint. The plate thickness is 12 mm. Indicate (a) rivet diameter, (b) pitch, (c) distance between two rows of rivets, and (d) margin.

OR

Draw Square head screw, Nut with washer for M 24 and length of the screw is 50 mm. Draw two views.

 Draw Top View and Sectional Front View of the Knuckle Joint. Refer Fig. 1. Consider D = 30 mm.



Intucitie of

OR

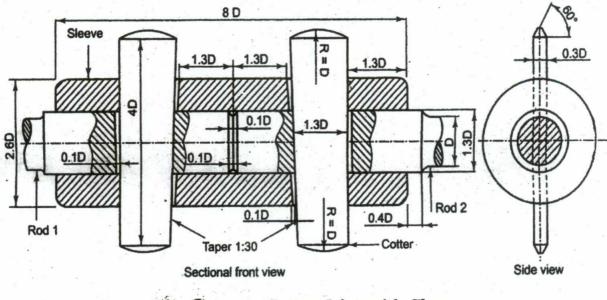
2

BME-034

26

30

Draw Sectional Front View and Side View of the Cotter Joint with Sleeve. Consider D = 30 mm. Refer Fig. 2.





Cotter Joint with Sleeve