No. of Printed Pages: 3

**BME-034** 

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

## Term-End Examination December, 2015

**BME-034: MACHINE DRAWING** 

Time: 2 hours			Maximum Marks: 70	
Note: Answer all questions. Assume any missing data. Use of scientific calculator is allowed.				
1.	Ans	swer any <i>seven</i> questions from the following:	7×2=14	
	(a)	Title block in drawing sheet may have maximum width ofbottom hand corner.	and is in	
	(b)	In third angle projection is in between	_ and observer.	
	(c)	Draw the simplified representation of hexagonal and square h	ead screw.	
	(d)	Which method of angle more than 30° is correct?  (i) (iii) (iii)		
	(e)	Draw the possible front and side views for the top view shown	below:	
	( <b>f</b> )	Draw section through British Association thread and show a height.	ngle, depth and	
	(g)	Show a Rounded counter sunk rivet in sketch.		
	(h)	Sketch a round key on a shaft.		
	(i)	Name two types of joints for hydraulic pipes.		

2. A shaft of 40 mm dia carries a pulley of hub of outer dia 80 mm. The hub is 60 mm long and the pulley has 4 arms. A square key of  $10 \times 10 \text{ mm}^2$  cross-section connects the hub with the shaft whose 40 mm dia increases to 60 mm with a transition radius of 5 mm.

## Draw:

- (a) Front view in section
- (b) Side view full

Show only the hub. You need not show circumference of pulley.

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## OR.

Two 16 mm thick plates are joined in double riveted lap joint. Find the pitch, back pitch and diagonal pitch. Draw the front view and plan for three rivet length.

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3. Draw the elevation right half in section and plan in full view for the object shown in Figure 1.

30

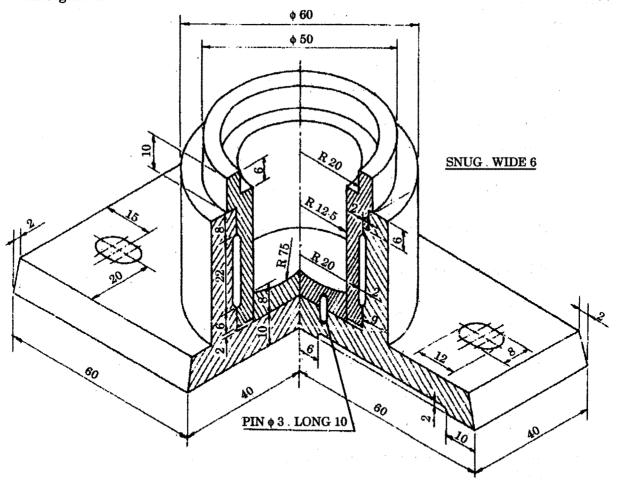


Figure 1

OR

**BME-034** 

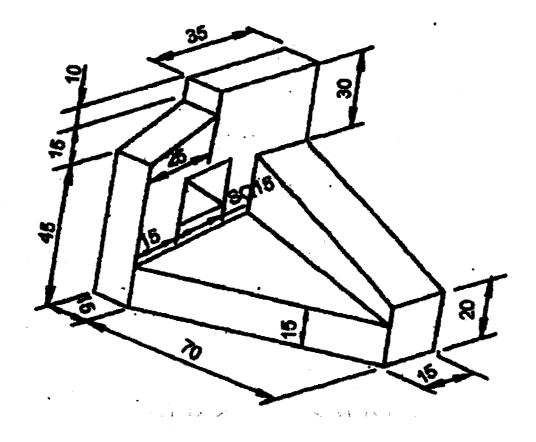


Figure 2

For the object shown in Figure 2, draw :

- (a) Front view
- (b) Plan
- (c) Right hand side view

*30*