No. of Printed Pages : 3 + Drawing Sheet

BME-034

02014

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

Term-End Examination

June, 2013

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) If 'd' is the diameter of rivet, then in a single riveted Lap Joint margin m =_____ and pitch is _____.

(b) Draw the Conventional Representation of a Helical Spring.

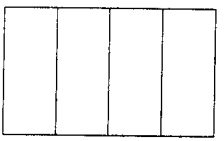
(c) Name any two types of methods by which linear dimensions are arranged in drawing.

(d) Name four types of rivet heads.

(e) In case of vertical shafts the support provided at the bottom of the shaft is called _____ bearing.

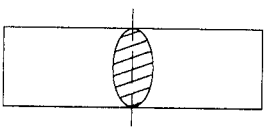
(f) Sketch an Eye bolt.

(g) Draw the possible Front View for the following plan.

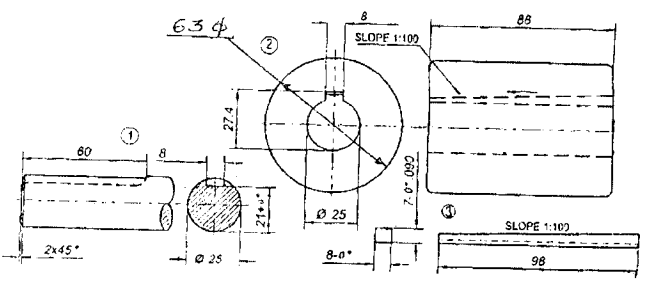


(h) For whit worth standard threads, the flank angle is _____.

(i) What is meant by the following figure ?



2. Figure below shows the parts of a sleeve coupling. Draw its Assembled Sectional Front View and Side View in full. 28



3	TAPER KEY	Fe-410 W	1
2	MUFF	CI	1
1	SHAFT	Fe-410 W	2
PART NO	DESCRIPTION	MATERIAL	NO. OFF

OR

Two 12mm thick plates are bolted by passing a 14mm Major diameter Hexagonal headed bolt through 13mm diameter hole. Nut is tightened at the bottom side. Also show the dimensions of the figure.

3. A bearing has 9 balls each of 12mm diameter. The single row bearing has outer diameter = D = 80mm, bore diameter = d = 40mm, width = B = 18mm, corner radius = U = 2mm. Draw the elevation in half section and Side View in full. 28

OR

Figure below shows three components of a socket and Spigot Cotter Joint. Assemble the parts and draw Front Elevation in section and side view in full.