



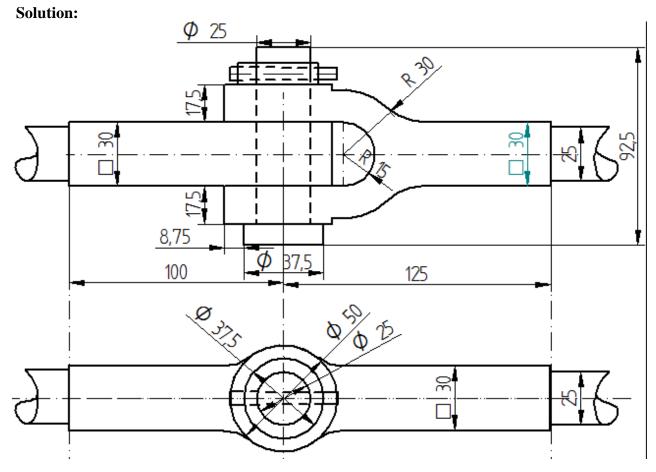
Internal Assessment Test III –Nov. 2019

Sub:	Computer Aided Machine Drawing					Sub Code:	18ME36A	Branch:	MEC	MECH.	
Date:	19.11.2019	Duration:	90 min's	Max Marks:	50	Sem / Sec:	3 (A&B)				

Scheme & Solution

1. Draw two views of knuckle joint assembly by taking shaft diameter of 25mm and indicate all dimensions.

20 Marks



Scheme:

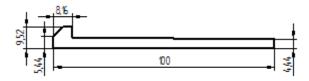
Calculation – 02 Marks

Dimensions – 03 Marks

Sketch F V - 10 Marks T V - 05 Marks 2. Draw an assembly of shaft and a hub showing Gib head key. Take shaft diameter equal to 25mm. Indicate all dimensions & proportions

10 Marks

Solution:



Gib head key

Width of the key = 0.25D + 2 mm = 8.25 mm

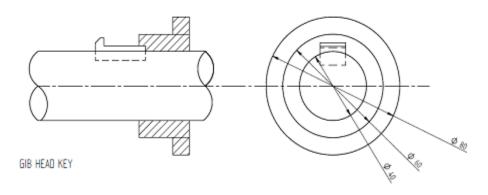
Thickness of key = 0.66W = 5.445mm

Length of the key= 100mm

Taper = 1:100

Height of gib head=1.75t= 9.52mm

Width of gib head = 1.5t =8.16mm



Scheme:

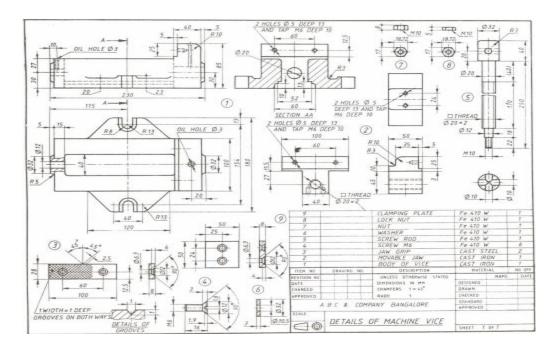
Calculation – 01 Marks

Key to scale - 05 marks

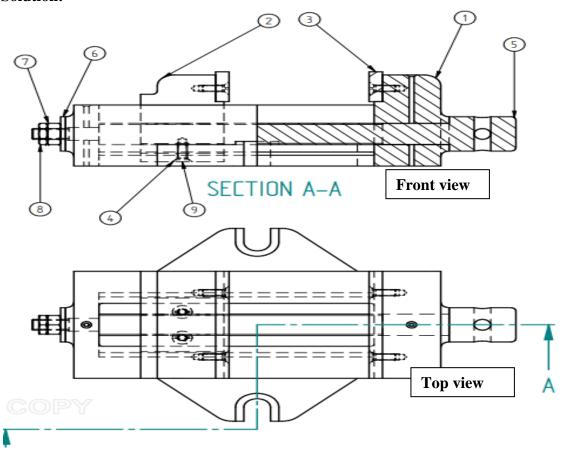
Assembly of key – 04 marks

(a) Front view (b) Top view

20 Marks



Solution:



Scheme:

Front view - 10 Marks Top View - 10 marks