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Question Paper Code: 54706

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Fourth Semester

Mechanical Engineering

		15UME406 - MACHINE DRAWING	
		(Regulation 2015)	
Dι	ratio	n: Three hours Maximum: 100 Marks	
		Answer ALL Questions	
		PART A - $(2 \times 20 = 40 \text{ Marks})$	
1.	(a)	Describe the different types of sectional views with suitable examples	(20)
		Or	
	(b)	(i) Explain the term tolerance zone with reference to the tolerance of form and position.	(10)
		(ii) With examples, show the method of indicating surface roughness on the following components:(a) symmetrical surfaces requiring the same quality,(b) cylindrical part.	(10)
2.	(a)	 (i) Define the following thread profiles and its applications with neat sketches (a) BSW thread, (b) Buttress thread (c) Square thread, (d) ACME thread and (e) Worm thread. 	(12)
		(ii) Explain the eye bolt with neat sketches and what purpose is it used.	(8)
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(b) (i) Explain and Sketch the taper sunk key in two views, as fitted in position between a

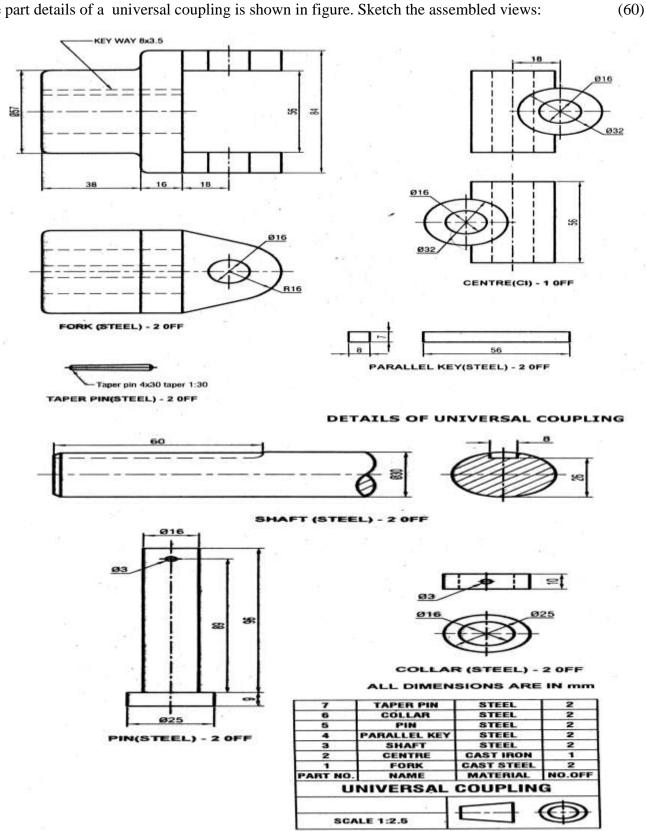
shaft and the mounting with suitable dimension.

(ii) What is feather key and its types with neat sketches?

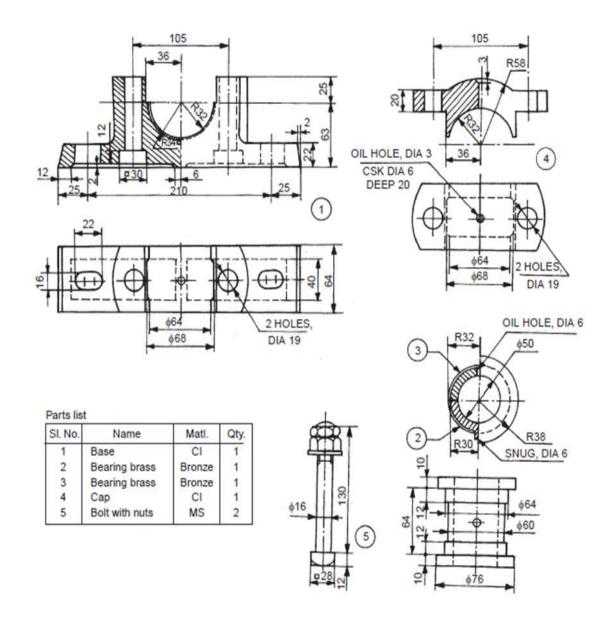
(12)

(8)

3. (a) The part details of a universal coupling is shown in figure. Sketch the assembled views:



- (b) Assemble the parts of the Plummer block, shown in Fig. 2 and draw the following views:
 - (i) Half sectional view from the front, with left half in section, and
 - (ii) View from above



(60)