# **Question Paper Code: 44706**

# B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

#### Fourth Semester

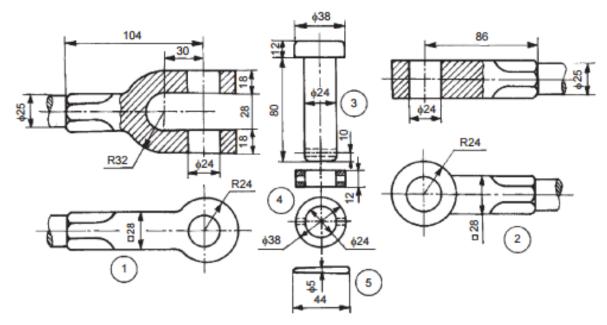
## Mechanical Engineering

### 14UME406 – MACHINE DRAWING

(Regulation 2014)

	PART A - $(6 \times 1 = 6 \text{ Marks})$							
(Answer any six of the following questions)								
1.	The section view drawing removal is known as a		object has been	marked for	CO1- R			
	(a) full	(b) half	(c) quarter	(d) none of the ab	ove			
2.	Objects that are symmetric	can be shown effectively u	ising this type of	section	CO1 -R			
	(a) Quarter section	(b) Half section	(c) Full section	(d) Symmetric se	ection			
3.	When only a small section use a section.	nen only a small section of an interior area needs to be revealed the drafter can compared section.  CO2 -R						
	(a) half	(b) quarter	(c) full	(d) broken out				
4.	In the hole and shaft pair designation of 40 H7/d9, the numbers 7 and 9 indicate							
	(a) tolerance grade		(b) accuracy of	manufacture				
	(c) ease of assembly		(d) none of the a	above				
5.	Peaks and valleys of surface	e irregularities are called _	·		CO3-R			
	(a) waves		(b) manifolds					
	(c) asperities		(d) perspectives					
6.	In a shaft basis system, the	upper deviation of the size	of the shaft is	·	CO3- R			
	(a) 1	(b) not related to size	(c) less than	(d) 0				
7.	Which property is not requi	red for shaft materials?			CO4 -R			
	(a) High shear and tensile st	trength	(b) Good machi	nability				
	(c) High fatigue strength		(d) Good castab	ility				

8.	Which of the following act on shafts?.		
	(a) Torsional moment	(b) Bending Moment	
	(c) Both torsional and bending	(d) None of the mentioned	
9.	The bolt which is used where the head of a bolt resurface of the connected piece is	nust not project above the	CO5 -R
	(a) Stud-bolt	(b) Tap-bolt or cap screw	
	(c) T-headed bolt	(d) Countersunk-headed bolt	
10.	The surface texture depends to a large extent on	·	CO5 -R
	(a) . material composition	(b) type of manufacturing operatio	n
	(c) the skill of the operator	(d) accuracy of measurement	
	PART – B (3 x 8=	= 24 Marks)	
	(Answer any three of the	following questions)	
11.	Sketch the actual and conventional representation fo	r the following elements:	(8)
	external thread, splined shaft, helical tension spring	g, chain wheel and bearing.	
12.	Explain in detail about the selection of fits with examples		(8)
13.	Compare and contrast the permanent and temporary	fastening system with	(8)
	suitable examples		
14.	Sketch and illustrate the terminologies of surface finish / profile.		
15.	Assemble the parts of a knuckle joint, shown in figure the front and (ii) view from above.	re and draw, (i) sectional view fr	om (8)



#### Parts list

SI. N	o. Name	Matl.	Qty.
1	Fork end	Forged steel	1
2	Eye end	Forged steel	1
3	Pin	Mild steel	1
4	Collar	Mild steel	1
5	Taper pin	Mild steel	1