Reg. No.:

Question Paper Code: 44706

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Fourth Semester

Mechanical Engineering

14UME406 – MACHINE DRAWING

(Regulation 2014)

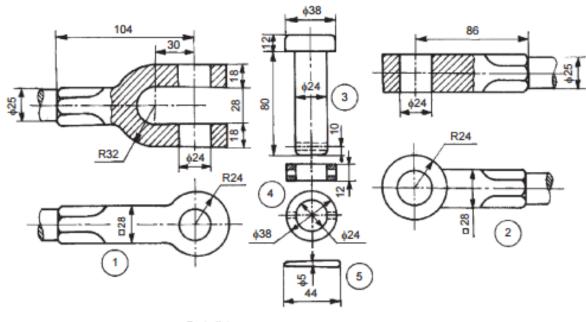
Duration: 1:45 hour Maximum: 50 Marks

	PART A - (1	$0 \times 2 = 20 \text{ Marks}$		
	(Answer any ten of	the following questions)		
1.	The section view drawing in which one four known as a section.	rth of an object has been marked for removal is		
2.	Objects that are symmetric can be shown effectively using this type of section			
3.	When only a small section of an interior area needs to be revealed the drafter can use a section.			
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 above		
5.	Peaks and valleys of surface irregularities are called			
6.	In a shaft basis system, the upper deviation of the size of the shaft is			
7.	Which property is not required for shaft materials?			
8.	Explain the following act on shafts?			
9.	The bolt which is used where the head of a bolt must not project above the surface of the connected piece is			
10.	The surface texture depends to a large exten	t on		
11	Draw a title block with dimensions			
12	Explain the different types of sectional view	S		
13	Define Tolerance of shaft			
14	Specify the common directions of lay.			

$$PART - B (3 \times 10 = 30 \text{ Marks})$$

(Answer any three of the following questions)

- 11. Sketch the actual and conventional representation for the following elements: (10) external thread, splined shaft, helical tension spring, chain wheel and bearing.
- 12. Explain in detail about the selection of fits with examples (10)
- 13. Compare and contrast the permanent and temporary fastening system with suitable examples..
- 14. Sketch and illustrate the terminologies of surface finish / profile. (10)
- 15. Assemble the parts of a knuckle joint, shown in figure and draw, (i) sectional view (10) from the front and (ii) view from above.



Parts list						
S	I. No.	Name	Matl.	Qty.		
Г	1	Fork end	Forged steel	1		
П	2	Eye end	Forged steel	1		
П	3	Pin	Mild steel	1		
П	4	Collar	Mild steel	1		
	5	Taper pin	Mild steel	1		