		Reg. No. :				
Question Paper Code: U8766						
B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024						
One credit course						
Mechanical Engineering						
21UME866 - LIMITS, FITS AND TOLERANCES						
(Regulations 2021)						
(Table Allowed For End Semester Examination)						
Duration: 1:30 Hours Maximum: 50 Marks						
Answer ALL Questions						
PART A - $(5 \times 2 = 10 \text{ Marks})$						
1.	Distinguish between basic size and actual size.			CO1- U		
2.	Give the meaning of the Φ 45 f 6.			CO1- U		
3.	What is clearance?			CO1- U		
4.	What is maximum and minimum limit?			CO1- U		
5.	Define clearance fit.			CO1- U		
PART – B (2 x 20= 40 Marks)						
6.	(a)	Compute the fundamental deviation for a circular hole of 35mm diameter finished to H7 tolerance (Φ 35 H7). Or	CO2-	- U	(20)	
	(b)	Explain the methods of indicating the fits in drawings.	CO2-	- U	(20)	
7.	(a)	Compute the limit dimensions for an interference fit on the hole basis system for a basic size of 20mm diameter, with a negative clearance of 0.100mm, tolerance on the hole0.025mm and tolerance on the shaft 0.050mm, explain with neat sketch. Or	CO2·	- U	(10) (10)	
	(b)	Describe the different types of Fits with neat sketch.	CO2-	- U	(20)	