Name			Printed Pages:01		
	School of Basic and Applied Sciences End Term Examination (ETE), July 2022, Summer Semental [Programme: B Tech] [Semester: I] [Batch: 4]				
Course Title: Engineering Physics			Max Marks: 50		
Course Code: BPH101/PHYS1001			Time: 3 Hrs.		
Instructions: 1. All questions are compulsory.		I			
	2. Assume missing data suitably, if any.				
	SECTION-A (10 Marks)				
1.	Write any three properties of matter waves.	CO1	K2	2	
2.	Define interference.	CO2	K2	2	
3.	Write characteristics of a laser light.		К3	2	
4.	Define curl and divergence of a vector A.		К3	2	
5.	Define soft and hard magnetic materials	CO5	К3	2	
	SECTION-B (16 Marks)				
6.	Explain the properties of wave function and its physical significance.	CO1	К3	5	
7.	Define the diffraction phenomenon due to grating. Write t grating equation.	he CO2	K4	5	
8.	Discuss the formation of hysteresis loop for a ferromagnetic material	. CO5	K4	6	
	SECTION-C (24 Marks)				
9.	Define absorption, spontaneous emission and stimulated emission.	CO3	K4	8	
10.	Describe Maxwell's equations in free space.	CO4	K4	8	
11.	Discuss diamagnetic, paramagnetic and ferromagnetic substances a its properties.	nd CO5	K4	8	