	Shree H.N.Shukla group of colleges	
S (1/15 / Martin	PHYSICS	
	T.Y.B.Sc. (Sem. V) (CBCS)	
	Unit Test examination	
ALA GRUU		
DATE :	Total mark	AVES (s : 30
Instructions: All questions are compulsory.		
The right side figure indicates total marks of the question.		
Draw the figure wherever necessary.		
	Write answers of all the questions in main answer	sheets.
SECTION-A		
Q.1: One	e marks questions:	[5 MARKS]
1	The flux for motional emf =	
2	Ampere's law in integral form=	
3	The unit of inductance I s	
4	Write a formulla between wavelength and wave nun	nber.
5	What is angular frequency?	
	SECTION – B	
Q.2 (A): Short Questions: Write any three : [2 Marks each] [6 MARKS]		
1	Write classical wave equation.	
2	Define : transverse waves.	
3	Define : standing waves .	
Q.2 (B) :	Short questions: Write all three: [3 Marks each]	[9 MARKS]
1	Explain monochromatic plane waves.	
2	Derive continuty equation.	
3	What is wave ? Explain.	
Q.2 (C): Write Detail Note on [Any two]: [5 Marks each] [10 MARKS]		
1	Discuss wave equation.	
2	Explain boundry condition for EM waves.	
3	Obtain the formulla for radiation pressure.	
4	Derive poyntings theorem.	