DATE :	Shree H.N.Shukla group of colleges PHYSICS T.Y.B.Sc. (Sem. V) (CBCS) Unit Test examination PAPER- 501 UNIT 1 - FOURIER SERIES TOTAL MARKS : 30
Instructi	ions: 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.
0.1: One	SECTION-A e marks questions: [5 MARKS]
1	What is fourier series?
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2	Write equation of forurier series.
3	Sine series is also known as series.
4	Write equation of coefficient a_0, a_n .
5	Write equation of co eeficient bn.
	SECTION – B
Q.2 (A):	Short Questions: Write all three : [2 Marks each] [6 MARKS]
1	Write sine series .
2	Write Cosine series .
3	Write drichlet's condition.
Q.2 (B) :	Short questions: Write all three: [3 Marks each] [9 MARKS]
1	Write fourier cosine series as function of 2I.
2	Obtain fourier complex series.
3	Explain properties of dirac delta function.
Q.2 (C): ' 1	Write Detail Note on [Any two]: [5 Marks each] [10 MARKS] Write fourier as function of 2I.
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2	Obtain full wave rectifier as application of fourier series. Explain in detail fourier integral.
3	
4	Obtain half wave rectifier as application of fourier series.