STATE THE	Shree H.N.Shukla group of colleges	
	PHYSICS	
	T.Y.B.Sc. (Sem. V) (CBCS)	
	Unit Test exami	nation
A GRUDI		
	UNITS - RELATIVITY	
DATE	:	Total marks :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 shoots		
Q.1: (One marks questions:	[5 MARKS]
1	1 What do you mean by an inertial reference frame ?	
2	Write formulla for speed of light in terms of permiability of vaccum.	
3	The locus of all points accesible to you is	
4	The trajectory of a particle on a minokwoski diagram is called	
5	Explain : Relativity.	
	SECTION –	В
Q.2 (A): Short Questions: Write all three : [2 Marks each] [6 MARKS]		
1	How much energy would be released if 1 kg of substance gtes fully converted into energy.	
2	Explain : non inertial refrance frame.	
3	How much energy would be released if 2 kg of substance gtes fully converted into energy.	
Q.2 (E	3) : Short questions: Write all three: [3 Marks e	each] [9 MARKS]
1	Explain Lorentz contraction.	
2	Write enstein's postulate for relativity.	
3		
Q.2 (C): Write Detail Note on [Any two]: [5 Marks each] [10 MARKS]		
1	Write note on : space time diagram .	
2	Write note on : Relativistic energy and Momentum .	
3	Explain : Time delation.	
4	Explain : The lorentz transformation.	