SKY1S THE	Shree H.N.Shukla group of colleges
	PHYSICS
	S.Y.B.Sc. (Sem. III) (CBCS)
	PAPER- 301
	UNIT - 1 : VECTOR ANALYSIS
DATE :	TOTAL MARKS : 30
Instructions: All questions are compulsory.	
	The right side figure indicates total marks of the question.
	Write answers of all the questions in main answer sheets.
SECTION-A	
Q.1: One	marks questions: [5 MARKS]
1	Vector means
2	curl theorem is also called
3	theorem gives the relationship between a surface integral to line integral.
4	the divergence of a vector function v is itself a
5	the operator ø turns vector A into vector A' is know as
	SECTION – B
Q.2 (A): Short Questions: Write all three : [2 Marks each] [6 MARKS]	
1	Define : divergence.
2	What is called scalar triple product?
3	What is called vectors transform?
Q.2 (B) : Short questions: Write all three: [3 Marks each] [9 MARKS]	
1	Explain vector transform for two dimensional case.
2	Explain product of four vectors.
3	Find the angle between the body diagonal of cube.
Q.2 (C): Write Detail Note on [Any two]: [5 Marks each] [10 MARKS]	
1	Explain triple product.
2	State and prove the product rules for gradients.
3	Describe fundamental theorems of divergence and gradients.
4	Discuss the divergence of a vector point function.