SKYIS	Shree H.N.Shukla group of colleges
	PHYSICS
	T.Y.B.Sc. (Sem. V) (CBCS)
C South	Unit Test examination
MUKLA GRO	PAPER- 502
	UNIT 3 ,4 - POTENTIAL & RADIATION
DATE :	Total marks :30
Instructi	ons: 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	marks questions: [5 MARKS]
1	The direction of magentic field of apoint charge is always to the electric field.
2	The advance time =
3	In the columb gauge =
4	The total power radiated from the sphere is independent of the sphere .
5	For a non relativistic particle the total power radiated by formula.
	SECTION – B
Q.2 (A):	Short Questions: Write all three : [2 Marks each] [6 MARKS]
1	find the potential of a point charge moving with constant velocity.
2	Calculate the electric field of a point charge moving with constant velocity.
3	Explain : Electromagnetic waves.
Q.2 (B) :	Short questions: Write all three: [3 Marks each] [9 MARKS]
1	Write equation of V and A in terms of d almebertian operator.
2	Explain : Columb gauge.
3	Explain the blueness of sky.
Q.2 (C): \	Write Detail Note on [Any two]: [5 Marks each] [10 MARKS]
1	Explain magnetic dipole radiation and derive expression of E and B.
	Discuss power radiated by a and point charge obtain larmour formulla.
2	
2 3	Write a note on lienard wiechert potential.