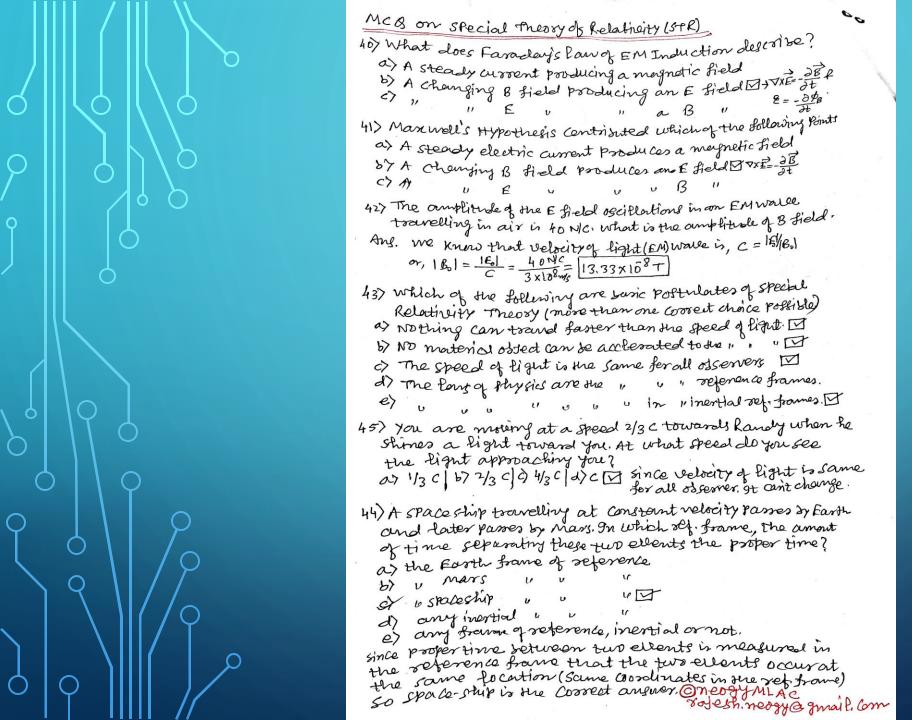
## Physics Theory Part 13

Topics: Quantum Physics/ Special Theory Of Relativity

Course: B.Sc/ Physics

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$$J = L + S$$
 where  $J = \sum_{i} j_{i}$ 

or,  $J = L + S + aL \cdot S$ 
 $L = \sum_{i} j_{i}$ 

or,  $L \cdot S = J^{2} L^{2} S^{2}$ 
 $S = \sum_{i} j_{i}$ 

Chinem term  $2 D_{3/2} \cdot \frac{1}{2} + \frac{1}{2} \frac{1}{2}$ 
 $2 S + 1 L_{3} \cdot S = \frac{1}{2}$ 
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## FOR ANY QUERIES FEEL FREE TO CONTACT ME AT EMAIL: RAJESH.NEOGY@GMAIL.COM

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**Thanksss**