Experiment 8.2 Marking key

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| **Experiment write up** | **Marks** |
| Complete Aim, materials, diagram and method from book | 1 |
| Table complete | 1 |
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| **Post lab Discussion** |  |
| Q1 – The relationship between the two should be the same | 1 |
| Q2 –  Transformer works based on the principle of Faraday’s Law of induction  Faradays Law emf equation is based on N the number of turns  Explanation on how the turn ratio effects voltage ratio | 1  1  1 |
| Q3 –  The number of turns in the secondary coil is less than primary  And /or the turn ratio is less than 1 | 1 |
| Q4 –  State Faraday’s Law  Emphasize on the fact EMF needs a changing magnetic force  Which is induced by AC current | 1  1  1 |
| Q5 –  Laminations are very thin strips of insulated metal joined together to produce a solid core.  Minimise core loss due to the small gaps between plates  Area of each part is reduce hence resistance will get high  This limits eddy currents | 1  2  1  1 |