

Annigorment 4 (MA31007)

(Mathematical Methods)

- Q1) Prove that the equations of transformation I a mixed ternor possess the group property (or, transitive property).
- a2) Prove that the tensor product of the tensions of the type (1, s) & (1, s) is a tenson of the type (n+n', s+s').
- a3) Prove that the open product of two vectory is a tensor of order two. In the convence true?
- Q4) Show that the outer product of two tennoms is a tensor whose order is the sum of the orders of the two tensons.
- Q5) Show that the inner product of the tensors An 2 Bt is a tensor of mank three.
- Q6) Show that the number of independent exceed 1 n (n+1). (here gis is the fundamental tensor).