05EC046 USN M.Tech. Degree Examination, May/June 08 Linear Algebra Max. Marks: 100 Time: 3 hrs. Note: Answer any FIVE full questions. a. Let F be a field of rational numbers, and off month 2 6 -1 5 10th Markett Find the solution. b. Find the inverse of (00T Marries) c. Solve the linear system, Bearles x + 3y = 1Tour Bod 2x + y = 23x + 4y + z = 0(07 Marks) by using LU-decomposition method. a. Prove that a subset W of a vectorspace V(F) is a subspace of V iff (96 Marks) a, be F,  $\alpha$ ,  $\beta \in V \Rightarrow a\alpha + b\beta \in W$ b. Prove that the set of vectors {(1, 0, 0), (0, 1, 0), (0, 0, 1)} is a basis for a three dimensional Cont. Consultation vector space V, (R). c. Let V(F) be a finite dimensional vector space and U, and U, be the two subspaces of V(F). If V(F) is a direct sum of  $U_1$  and  $U_2$ , then prove that  $\dim V = \dim U_1 + \dim U_2$ . (07 Marks) a. Let V and W be vector spaces over the field F and let T be a linear transformation from v into w. Suppose that V is a finite dimensional then prove that rank(T) + pullity(T) = dim Vb. Let V and W be vector spaces over the field F. Let T and U be linear transformations from V into W. Prove that the function (T+U) defined by (97 Nucks) (T+U)(a)=Ta+Ua c. Show that the mapping  $F:\mathbb{R}^2 \to \mathbb{R}$  defined by F(x, y) = xy is not linear. (97 Marks)

4 a. Let V and W be vector spaces over the field F and let T be a linear transformation from V into W. If T is invertible then move that the inverse function T<sup>-1</sup> is a linear transformation from W into V. (06 Marks)

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