**I UNIT TEST**

**CLASS XII MATHS**

**Time -40 min One marks Questions M.M.40**

**NOTE- *Attempt all questions*.**

**1. What is the principal value of .**

**2. If =1, find the value of x.**

**3. Give an example of a relation which is transitive but neither symmetric nor reflexive.**

**4. If A is a square matrix of order 3 such that =64.Find**

**5. Find the value of, if=21.**

**6. If A= ,then find the value of.**

**Two marks Questions**

**7. If 3 +=, find the value of x.**

**8. Solve .**

**=BTAT**

**Four Marks Questions**

**10. Solve of *x*: **

**11. Show that the relation R in the set A= given by**

**is an equivalence relation.**

**12. Using Properties of determinants, Show that =**

**13. Find the matrix X so that X =**

**Six Marks Questions**

**14. Let be a function defined as . Show that where S is the range of f, is invertible. Also find the inverse of f. Hence, find .**

**15. Given two matrices A = and B=  verify that BA=6I.Use the result to solve the system x-y = 3 , 2x + 3y + 4z = 17 , y + 2z =7**

**THE END**