Time: 30 Min   **Full Marks: 10**

[Answer any <u>Five</u> questions (2 x 5=10)]

1. Explain an Equivalence Relation. What is it's difference with Partial Order Relation ?

2. What is the Permutation Group ? Explain it.

3. Prove that a Cyclic group is abelian.

4. Define a Subgroup. Give examples.

5. Define a normal subgroup. Give examples.

6. What is Homomorphism in Group operations ?

7. Define an Integral Domain. Give examples.

8. What are the cancellation laws in a ring ?

Click the *Link* below to submit the *Answer Script* (in a single PDF file)

<< https://forms.gle/GDvptzaRdZbqPmz6A >>