

GOVERNMENT DEGREE COLLEGE GANDERBAL

Department of Mathematics

Assignment for B.A/B.SC 4th Semester

Algebra

Course Code: BMM-CR16401

Marks: 90

Attempt any 04 out of 5 Questions and each question carries equal weightage.

Q1. Define Addition and Multiplication modulo and give two examples of addition and multiplication modulo?

Q2. Define order of a group & Describe Lagranges Theorem?

Q3. Define Normal subgroup and properties of a normal subgroup and give its two examples?

Q4. Define cyclic group and generator of a cyclic group? Prove that every cyclic group is an Abelian group.

Q5. Define commutative and non-commutative rings with two examples of a commutative and non-commutative ring?

Instructions:

- 1. The students can mail assignment on gdcgbl34math@gmail.com***
- 2. Last date of assignment submission is 26/06/20.***
- 3. The assignment must be handwritten.***
- 4. Students must write page no., roll no., registration no. on the top right corner of each page.***
- 5. A4 size ruled paper with not more than 10 pages converted into a single PDF file using CamScanner will be only accepted.***
- 6. Students are advised to preserve hard copy of Assignment.***
- 7. Do not copy answers from other students.***
- 8. Assignments should be scanned properly for clear visibility.***

Title page of assignment must contain

Name of the candidate.....

Category: Fresh/Backlog.....

RollNo.....

Subject.....

Semester.....

Batch

Regd:no.....

Cell no.....