

GOUR MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

ACCREDITED BY NAAC (3rd cycle) B⁺⁺

Dr. Rakesh Sarkar, Ph.D.

Head

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Memo No: GM/MATH/0007/26

Date: 08.01..2026

NOTICE

Subject: Submission of Mathematics (Major) Assignment – Semester III

- All students of **Mathematics as Major in Semester III** are hereby informed that they must submit their assignment **27th January 2026**

Submission Guidelines:

- **Last Date: 27th January 2026**
- **Cover Page** (Must Include):
 - Student's Name
 - Roll Number
 - Course Name (**Mathematics Major – Semester III**)
 - College
 - Assignment Title
- **Required Pages:**
 - Title Page
 - Content Page
 - Acknowledgment Page
 - Main Content (at least 12 pages)
 - Reference Page
- **Assignment Topic:** Assigned individually by the faculty. Each student must complete their own assigned topic.
- **Mode of Submission:** Submit hard copy
- **Submit To:** Department of Mathematics

Late submissions will not be accepted. Ensure that your assignment is well-organized, properly formatted, and complete before submission.

For any queries, contact Department of Mathematics.

(Dr. Rakesh Sarkar)

HoD

Department of Mathematics,
Gour Mahavidyalaya,
Mangalbari, Malda.

Head of the Deptt.
Deptt. of Mathematics
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SL. NO.	NAME	ABSTRACT ALGEBRA	DIFFERENTIAL EQUATIONS
1	Abdul Nazir	Rings, subrings and characteristic of a ring.	General solution of homogeneous equation of second order, principle of super position for homogeneous equation
2	Afroja Khatun	Centralizer, normalizer, centre of a group.	Linear homogeneous and nonhomogeneous equations of higher order with constant coefficients
3	Ajijur Rahaman	Cyclic groups.	trajectories, Wronskian and its properties.
4	Akshika Barman	Permutations, symmetric group , alternating group.	Cauchy-Euler equation
5	Amit Mandal	Fields	method of undetermined coefficients
6	Anjali Mandal	Cosets, properties of cosets, Lagrange's theorem and consequences including Fermat's Little theorem.	Exact differential equation
7	Beauty Karmakar	Rings, subrings and characteristic of a ring.	Basic theory of linear systems in normal form, homogeneous linear systems with constant coefficients
8	Chaitanya Mandal	First isomorphism theorem. Second isomorphism theorem and Third isomorphism theorem (Statement only).	Legendre polynomials
9	Debjoyti Mandal	Prime and Maximal Ideals	Partial differential equations, basic concepts and definitions. First-order equations: classification, construction and geometrical interpretation.
10	Deep Kumar Paul	Permutations, symmetric group , alternating group.	Canonical forms of first-order linear equations.
11	Digambari Mandal	Ring homomorphisms	Exact differential equation
12	Dipa Karmakar	Prime and Maximal Ideals	method of variation of parameters

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13	Ferjatun Khatun	First isomorphism theorem. Second isomorphism theorem and Third isomorphism theorem (Statement only).	Solution by Lagrange's method.
14	Kanij Fatema	Group homomorphism ans isomorphism	Linear differential equation and Bernoulli's equations
15	Kanistha Swarnakar	Fields	Equilibrium points, Interpretation of the phase plane.
16	Khushbu Mahaldar	Prime and Maximal Ideals	Linear differential equation and Bernoulli's equations
17	Labani Tikader	Centralizer, normalizer, centre of a group.	Solution by Charpit's method.
18	Mahamuda Khatun	Group homomorphism ans isomorphism	Power series solution of a differential equation about an ordinary point, solution about a regular singular point
19	Manati Karmakar	Rings, subrings and characteristic of a ring.	method of variation of parameters
20	Marium Khatun	Integral domains	Eigenvalue problem
21	Maskura Khatun	Fields	Solution by Charpit's method.
22	Md. Sakil	Permutations, symmetric group , alternating group.	method of variation of parameters
23	Md. Shahinsa Hossian	Quotient group	Power series solution of a differential equation about an ordinary point, solution about a regular singular point
24	Mst. Nurnesha Khatun	Rings, subrings and characteristic of a ring.	Solution by Lagrange's method.
25	Muskan Parveen	Integral domains	method of undetermined coefficients
26	Nafisa Khatun	Group homomorphism ans isomorphism	Method of characteristics for obtaining general solution of quasi linear equations.
27	Najmin Aktar Banu	Group homomorphism ans isomorphism	Legendre polynomials
28	Nayan Chowdhuy	field of quotients	Equations not of first degree, Clairaut's equations, singular solution

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29	Nilkanta Sarkar	Ideal.	Clairaut's equations, singular solution.
30	Nupur Mandal	Groups and subgroups.	Eigenvalue problem
31	Payel Parvin	First Isomorphism theorem for ring. Isomorphism theorems II and III for ring (Statement and Applications)	Solution by Lagrange's method.
32	Pritam Barman	Normal subgroup	Equations not of first degree, Clairaut's equations, singular solution
33	Priti Mandal	Prime and Maximal Ideals	Linear homogeneous and nonhomogeneous equations of higher order with constant coefficients
34	Rahul Singha	Normal subgroup	method of variation of parameters
35	Raj Saha	cyclic groups.	Bessel functions
36	Ranit Biswas	Introduction to polynomial ring.	Linear differential equation and Bernoulli's equations
37	Roshni Murmu	Integral domains	Solution by Lagrange's method.
38	Rudradev Sarkar	Normal subgroup	Method of undetermined coefficients
39	Sahin Rahaman	Groups and subgroups.	Exact differential equation
40	Sahina Parvin	Field of quotients	Method of variation of parameters
41	Samima Khatun	First Isomorphism theorem for ring. Isomorphism theorems II and III for ring (Statement and Applications)	Power series solution of a differential equation about an ordinary point, solution about a regular singular point
42	Sehenaj Aktari	Cosets, properties of cosets, Lagrange's theorem and consequences including Fermat's Little theorem.	Solution by Charpit's method.
43	Shreya Mandal	quotient group	Legendre polynomials
44	Shubha Sarkar	Fields	Clairaut's equations, singular solution.
45	Sk. Asmaul	Integral domains	Method of variation of parameters.
46	Subhajit Mandal	Cosets, properties of cosets, Lagrange's theorem and consequences including Fermat's Little theorem.	Eigenvalue problem.
47	Subrata Biswas	Centralizer, normalizer, centre of a group.	Solution by Charpit's method.

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48	Supurna Poddar	Cyclic groups.	Systems of linear differential equations, types of linear systems, differential operators, an operator method for linear systems with constant coefficients
49	Tumpa Karmakar	Ring homomorphisms	Legendre polynomials

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