

ANNADA COLLEGE, HAZARIBAG.

ASSIGNMENT FOR MATHEMATICS GENERIC
(SESSION: 2015-2018/2016-2019/2017-2020/2018-2019/2019-2022)

SEM -I

- (1) State and prove Leibnitz's Theorem for successive Differentiation.
 - (2) Define Partial Differentiation. State and prove Euler's theorem on Homogeneous Function of two variables.
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SEM -II

1. Define:

- (a) Exact Differential Equation.
 - (b) 1st order differential equation with example.
 - (c) Degree of a Differential equation with example.
- (2) Explain Charpit method for solving Partial Differential equation with two independent variable.
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SEM III

- (1) State and prove Rolle's Theorem and interpret it geometrically.
 - (2) State and prove Lagranges 'mean value theorem.
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SEM -IV

- (1) Define Abelian group with example.
 - (2) Show that 4th root of unity form a group under ordinary multiplication.
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