

Burdwan Raj College
Department of Mathematics
Internal Assessment: Home Assignment

(To be Submitted to designated email id mentioned below by 15 November 2020)

Semester: II

Subject: *Mathematics (Gen)*

Paper: GE2 & CC1B

Send your assignments to (email id): mdjasimuddin1993@gmail.com

Internal Assessment, 2020.
Semester - II . (PASS) Mathematics
Paper - BHC2 CC-1B
Send (Differential Equations) FH: 10
Answer to mail id: - mdjasimuddin1993@gmail.com
Answer any Five questions: -

- (1) $(1+y^2) dx = (\tan^{-1} y - x) dy$
- (2) $2x^2 \frac{dy}{dx} = xy + y^2$
- (3) Solve: $(D^2 - 2D + 1)y = x \sin x$, $D = \frac{d}{dx}$
- (4) $x^2 \frac{d^2y}{dx^2} + 4x \frac{dy}{dx} + 2y = e^x$
- (5) Solve and find ~~any~~ Singular Solution of:
 $y^2(y - xp) = x^4 p^2$
- (6) Solve $\frac{dx}{x^2} = \frac{dy}{y^2} = \frac{dz}{nxy}$
- (7) Solve: $a(p+q) = z$ ~~z = 0~~
- (8) Find a Complete integral of $px + qy + pz = 0$

Procedure of Appearing in the Internal Examination:

1. Download the question paper from the "online examination" section of the College portal: www.burdwanrajcollege.ac.in
2. Write your assignment on blank white A4 size papers.
3. The assignment must carry the following details of the student:
 - a. Name of the Student

- b. University Roll Number
 - c. University Registration Number
 - d. Name of the Paper
 - e. Mobile Number of the Student
- 4. Examinees will have to submit their own hand-written answer scripts electronically to the mail id specified by the College in a single pdf file.**
 - 5. On the subject-line of the mail write your Name and University Roll No.**