## Burdwan Raj College

## Department of Physics

## **Internal Assessment: Home Assignment**

(To be Submitted to designated email id mentioned below by 20<sup>th</sup> November 2020)

Semester: II

Subject: Pass (GE/GENERAL)

Paper: CC - 1B/ GE - 2

Send your assignments to (email id): abhi109@gmail.com

- 1. Answer any five questions from the following:

  EX TETER STON STORE STORE -33 N3: 4x5 = 20
  - (a) State and explain Gauss' theorem of electrostatics.
  - (b) Justify whether  $\vec{E} = y^2 \hat{i} + 2xy \hat{j} + 7k$  represents an electrostatic field.

    (62) ATMA,  $\vec{E} = y^2 \hat{i} + 2xy \hat{j} + 7k$  Tarray Originary lathout again that Tarray again
  - (e) State Biot-Savat Law. Determine an expression for magnetic field at a point near a straight current carrying wire of finite length.

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  - (4) Write down the Maxwell's equations of electromagnetic theory of radiation.

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  - (e) storting from Maxwell's electromagnetic field equations, establish the Poynting's theorem.

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- (1) state the laws of electromagnetic induction.

## **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.