

**Electronics Honours (3<sup>rd</sup> Semester) Internal Examination 2021**

**1<sup>st</sup> March 2021**

**Paper CC7**

**Answer any 5 questions. 2×5**

- 1) What are curvilinear coordinates? Give two examples.
- 2) Write the transformation equations from cartesian to cylindrical polar coordinates.
- 3) State Gauss' divergence theorem in vector analysis.
- 4) State Coulomb's law. What is an electric dipole?
- 5) State Biot-Savart's law.
- 6) State and explain Faraday's law of electromagnetic induction.
- 7) What do you mean by electromagnetic spectrum?

Send your answers in a pdf file to [snecelectronicscience@gmail.com](mailto:snecelectronicscience@gmail.com) from your registered departmental Gmail address.