

2018

CBCS

3rd Semester

ELECTRONICS

PAPER—C7P

(Honours)

(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Electromagnetics Lab.

Answer any one question, selecting it by a lucky draw.

- 1.** Write a program in SCILAB to transform the vector of Rectangular co-ordinates into cylindrical co-ordinates.
- 2.** Write a program in SCILAB to find the Divergence of Electric Flux Density 'D' at the origin.

3. Write a program in SCILAB to find the total charge enclosed in a volume.
4. Write a program in SCILAB to find Electric Flux Density 'D' of a uniform line charge.
5. Write a program in SCILAB to find the magnetic field intensity of a current carrying filament.
6. Write a program in SCILAB to verify stokes theorem.
7. Write a program in SCILAB to find the capacitance of a spherical capacitor.
8. Write a program in SCILAB to determine the electric field of a two infinite radial planes with an interior angle α .

Distribution of Marks :

Experiment : 15 marks

Laboratory Note Book : 02 marks

Viva-Voce : 03 marks