S.R. FATEPURIA COLLEGE

INTERNAL ASSESMENT - 2020

PHYSICS (HON)

2nd SEMESTER

Full marks - 10

Answer any one

(1) Electrostatic potential is given by —

$V(xy) = 4e^{2x} + f(x) - 3y^2$, in free space and the x-component of electric field and potential are zero at origin, the find the value of $f(x)$? 10

(2) Write down Bio-Savart law?

Find out magnetic field due to current carrying circular wire at the centre and at the axis of the circular wire ? 2+4+4