EE214000 Electromagnetics, Fall 2020

Your name:	ID:	Nov. 23rd, 2020

EE214000 Electromagnetics, Fall, 2020 Quiz #10-2, Open books, notes 16 points), due in class, Monday, Nov. 23rd, 2020

1. In a cylindrical system without longitudinal variation, write the functions of r for which you can't use as solutions for the Laplace equation when involving r = 0 in an electric-potential problem. (2 points)

2. In an axially symmetric system (no variation in ϕ) with longitudinal variation, write the functions of r for which you can't use as solutions for the Laplace equation when involving r = 0 in an electric-potential problem. (4 points)

3. Try to solve the electric potential in the region r > b for the following problem. (10 points)

