



Damietta University
Faculty of Science
Dept. of Physics
4th year Physics students



Oral Test
2nd Term - May 2020
Plasma Physics (407Ph)



Damietta University
Full Mark: 15 marks
Date : 20 / 7 / 2020

Answer the following questions:

Question (1)

Define and Discuss:

- i- Debye length.
- ii- Drift velocity.
- iii- Plasma frequency.

What is the effect if there is density gradient.

Question (2)

Discuss the different types of waves in plasma. Derive the dispersion relation for each.

Prof. Dr. Salah El-Labany