

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
INSTRUMENTAL METHODS OF ANALYSIS: BIO F244
II SEMESTER: 2017-18
MID TERM EXAMINATION

Max Marks: 20
Time: 40 min

Date: 5/03/18

PART B

Q1. Differentiate between wave number and wave frequency. (2)

Q2 (a) What's is difference between Beer's Law and Lambert's Law. (2)

(b) Explain Real Deviations from Beer Lambert's Law. (2)

Q3. What are the 2 types (configurations) of prisms used in Spectroscopy. Briefly explain with help of figure. (4)

Q4. Complete the following table with reference to respective spectroscopy: (2)

Radiation type	Radiation source in spectrometer	Material of sample holder
Line source of Infra red radiation		
Line source of UV-Visible radiation		
Continuous Source of only UV		
Continuous source of Visible Range only		

Q5. (a) Enumerate 8 applications of Fluorescence in your daily life. (4)

(b) How is phosphorescence different from fluorescence. (4)