Assignment-10

The due date for submitting this assignment has passed. **Due on 2017-10-04, 23:59 IST.**

Submitted assignment

1) If the absorption of electromagnetic radiation by matter results in the emission of radiation of same or longer wavelengths for a short time, the phenomenon is termed as which of the following?
   - Luminescence
   - Fluorescence
   - Spontaneous emission
   - Phosphorescence

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   **Fluorescence**

2) The measurement of intensity of fluorescent X-rays provide a simple and __________ way of __________ analysis. Fill in the blanks.
   - Non-destructive, quantitative
   - Destructive, quantitative
   - Destructive, qualitative
   - Non-destructive, qualitative

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   **Non-destructive, quantitative**

3) State whether the following statement is true or false: "Florescent X-ray spectrometer would require only moderate intensity X-ray tubes"
   - True
   - False

   **No, the answer is incorrect.**
   **Score:** 0
   **Accepted Answers:**
   **False**

4) The use of which crystal (as an analyzer) will give a better resolution in an X-ray fluorescent spectrometer.
   - Gypsum

https://onlinecourses.nptel.ac.in/noc17_mm11/unit?unit=47&assessment=99
5) An unknown sample was analyzed using X-ray absorption spectrometer. The intensity to the right and left of absorption edge are 10 au and 1 au respectively (au stands for arbitrary units). $L_m = 3$ and $K_x = 1$. Determine the weight fraction of the element.

- NaCl
- LiF
- Mica

No, the answer is incorrect.
Score: 0
Accepted Answers:
Mica

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.767