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IMA- Question Bank for Test – 3

Portions:

- X-Ray Diffraction Analysis (XRD)
- Atomic Absorption Spectroscopy (AAS), Flame Photometry, Inductively
 Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Part A (2 mark questions)

- 1. What is Bragg's law? How is it useful for chemical analysis?
- 2. What is Duane-Hunt law?
- 3. What is Moseley's law? What are its applications?
- 4. What are the essential parts of XRD instrument?
- 5. Differentiate between theta-theta and theta-two theta goniometer.
- 6. Draw a typical XRD spectrum.
- 7. What are the limitations of XRD?
- 8. What are the interferences with AAS analysis?
- 9. What are the applications of Flame Photometry?

Part B (16 marks questions)

Explain with a schematic, the principle, applications, instrumentation and typical output of: (i) AAS, (ii) Flame Photometry, (iii) ICP-AES, (iv) XRD

