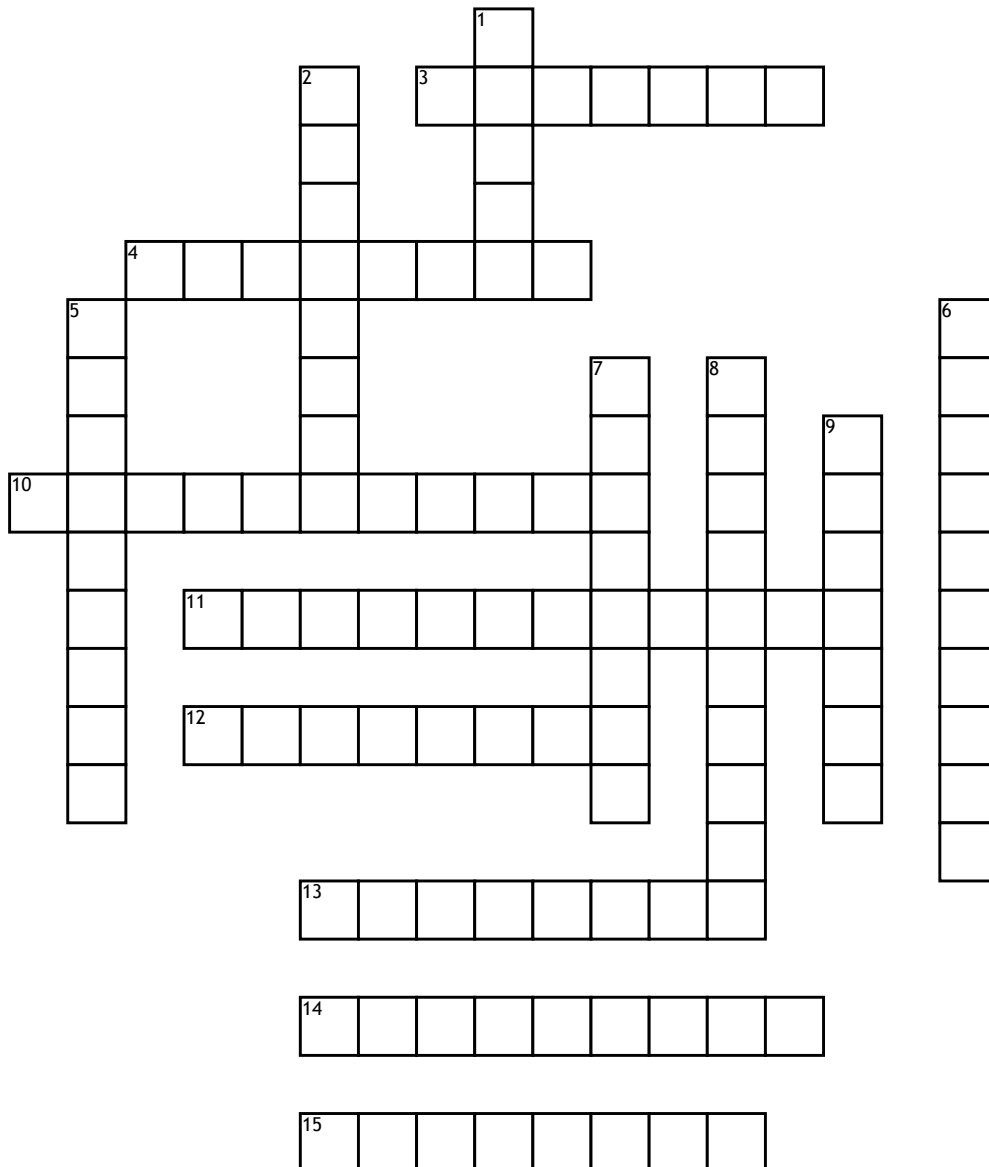


Optics and Dual Nature of Radiation



Across

3. Name given by Plank to a packet of emission of radiation

4. Name of the crystal used to examine the nature of light emerging from the polariser

10. The distance between two successive maxima in an interference pattern

11. Re-distribution of light intensity due to the superposition of two light waves

12. The scientist who, along with Lenard, gave the laws of photoelectric emission

13. Scientist who discovered the relation between polarising angle and refractive index

14. The lowest frequency of light which can emit photoelectrons from a material is called the _____ frequency

15. The scientist who, along with Germer, experimentally demonstrated matter waves

Down

1. Scientist who, along with Hunt, gave the relation for minimum wavelength limit of continuous X-rays

2. Modern-day tube used to produce X-rays

5. Scientist who hypothesized that moving particles of matter should exhibit wave-like character

6. The chemical compound whose crystals are used for producing polaroids

7. Two sources that emit light waves having sharply defined phase difference that remains constant over time

8. Scientist after whom single-slit diffraction is named

9. Scientist who investigated the relation between the frequency of K-line and atomic number of emitting element