Course Code: 2MSCP4
Course: Atomic & Molecular Physics
Credit: 3
Last Submission Date: October 31 (for January Session)
April 30, (for July session)

Max. Marks:-30
Min. Marks:-11

Note:-attempt all questions.

Que.1   Discuss spin- orbit interaction and fine structure in alkai spectra.

Que.2   Explain paulli's exclusion principle.

Que.3   Discuss the energy level and rotational spectra of non – rigid rotator.

Que.4   Explain intensity of rotational lines.

Que.5   Discuss vibration spectrum of diatomic molecule.

Que.6   Explain morse potential energy curve.

Que.7   Explain Mossbauer spectro scopy.

Que.8   What is raman effect? Explain raman effect by classical theory.