



Government of Jammu and Kashmir,
Services Selection Board,
Zum Zum Building Rambagh, Srinagar.

(www.jkssb.nic.in)

Marks:-150

Time:-2:30 Hours

**Syllabus for Written test (Objective Type) for the Post of
Assistant Scientific Officer (Chemistry and Toxicology)**

1. Arson/ Fire Scope, Purpose introduction and methods for their detection of accelerants in burnt/ semi burnt materials. **10 Marks**
2. Indicators, introduction, different types of indicators used in acid/ base reaction and detection of Chemicals used in trap cases. **10 Marks**
3. Hydrocarbons, introduction, different types of Petroleum products like Petrol, diesel, Kerosene oil and lubricating oils and their analysis. **10 Marks**
4. Explosive, Scope, Purpose, introduction and methods of detection from crime scene exhibits. **10 Marks**
5. Narcotic and Psychotropic substances, scope, purpose, introduction and their detection. **20 Marks**
6. Poisons, Classification of Poisons, Toxicokinetics, mechanism of toxicity and clinical management **15 Marks**

7. Isolation and purification techniques used during analysis of Poisons. **15 Marks**
8. Chromatography, thin layer Chromatography, gas liquid Chromatography, high performance liquid Chromatography **30 Marks**
9. Spectrophotometry, Introduction of ultraviolet absorption spectrophotometry, infrared spectrophotometry and their utility in forensic science. **30 Marks**

(S. A. Raina), KAS,
Secretary,
J&K Services Selection Board,
Srinagar.