SYLLABUS FOR ENTRANCE TEST FOR THE POST OF
SUB-INSPECTOR (PRESENTLY FERTILIZER CLERK)

Section A: GENERAL (60 MARKS)

Analytical Ability, Logical, quantitative and visual-spatial reasoning
Computer skills; computer applications and proficiency in using windows; MS office etc.
General Knowledge/current affairs.
General Punjabi up to Matric standard
General English (Up to Graduation standard)

Section B: PROFESSIONAL (40 MARKS)

Agriculture, its importance in national economy. Factors determining agro-ecological zones and geographic distribution of crop plants. Importance of crop plants, cultural practices for cereal, pulses, oilseed, fibre, sugar, tuber and fodder crops and scientific basis for these crop rotations, multiple and relay cropping, intercropping and mixed cropping.

Soil as medium of plant growth and its composition. mineral and organic constituents of the soil and their role in crop production; chemical, physical and microbiological properties of soils. Essential plant nutrients (macro and micro)—their functions, occurrence, cycling in soils Principles of soil fertility and its evaluation for judicious fertilizer use. Organic manures and bio-fertilizers, inorganic fertilizers, integrated nutrient management. Soil conservation, integrated watershed management, soil erosion and its management

Principles of plant physiology with reference to plant nutrition, absorption, transactions, and metabolism of nutrients. Diagnosis of nutrient deficiencies and their amelioration photosynthesis and respiration, growth and development, auxins and hormones in plant growth.


**Principles of economics as applied to agriculture**. Farm planning and optimum resource-use efficiency and maximising income and employment. Farm systems and their spatial distribution, their significant roles in regional economic development, intellectual property rights (IPR) issues, WTO issues and its impact on agriculture.