AGRONOMY (AGNM)

Class - XI

Full Marks 100

Theory-80 marks

1. **Weather, Climate and Seasons**: Factors of weather affecting crop growth, Crop distribution, Crop seasons, broad classification of crops according to their uses.
2. **Soils**: Definition of soil; factors of soil formation, physical properties of soil affecting plant growth – soil texture, structure, bulk density, soil water.
3. **Cultivation:** Land selection, tillage, sowing, cultivation, harvesting and uses of different kinds of farm implements.
4. **Crop production:** fibre (jute), tuber (potato), pulses (gram), oilseed (mustard), fodder (maize & berseem).
5. **Irrigation and Drainage:** sources and different methods of irrigation, role of irrigations and drainage in crop production, important methods of drainage.
6. **Concepts of mixed:** specialized and subsistence farming, crop rotation, inter, multiple and relay cropping.

PRACTICAL (20 marks)

1. Acquaintance with common farm implements and their operations- Dismantling and assembling of mould-board plough, seed drill, wheel-hoe and rotary weeder.
2. Measurement and record of temperature & rainfall.
3. Seed testing and seed dressing.
4. Determination of soil texture by feel method.
5. Familiarity with different crop production operations (seedling raising, transplanting etc.) in the important crops consistent to the theory course.
6. Acquaintance with the cultivation of important crops.
7. Allotment of plots, for growing crops by individual.
8. Visit to important agricultural, horticultural, animal production farms.