RAJASTHAN PUBLIC SERVICE COMMISSION
Syllabus for Screening test for the Post of
Assistant Agriculture Research Officer (Plant Pathology)
Agriculture Department

1. History and Scope of Plant Pathology- History of plant pathology with particular reference to India. Major epidemics and their social impacts. Historical developments of chemicals, legislative, cultural and biological protection measures. Scope and application of microbes in agriculture industry, pollution and biological control of pests.

   - **Mycology**: Introduction, terms and basic concepts. General Characters of fungi, types of fungal thalli, fungal tissues, modifications of thallus, reproduction in fungi (asexual and sexual). Classification of fungi. Comparative morphology, ultrastructure, characters of different groups of fungi up to generic level. Importance of fungi. Mycorrhizal associations.


8. **Mushroom production Technology**
Mushroom cultivation, food, medicinal value, uses of mushroom, edible and poisonous mushrooms. Life cycle of cultivated mushrooms, maintenance of pure culture, preparation of spawn and facilities required for establishing commercial spawn lab.

**Pattern of question papers:**
1. Objective type paper
2. Maximum marks : 100
3. Number of question : 100
4. Duration of paper : Two hours
5. All question carry equal marks
6. There will be negative marking.

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