



KHYBER PAKHTOON KHWA, PUBLIC SERVICE COMMISSION, PESHAWAR.

**SUBJECT:- COPETTIVE EXAMINATION FOR THE POSTS OF PROVINCIAL
MANAGEMENT SERVICE(BPS-17).**

2010

BOTANY PAPER-I

Time Allowed: 03 hours.

Max: Marks: 100

Note: attempt any **FIVE** questions.

- I. Give detailed life cycle of a **heteroecious rust** with suitable diagram.
Write down its control measures. **20**
- II. Give economic importance of **major groups of algae.** **20**
- III. What are the evolutionary tendencies present in **sporophytes of Anthoceros** to form **sporophytes** of land plants? **20**
- IV. What is speciation? Write down the rules of nomenclature. **20**
- V. Give generalised life **cycle of gymnosperms.** Describe the advance features in order **Gnetales?** **20**
- VI. Describe the principals of **disease control and management.** **20**
- VII. Describe **stellar system.** Enumerate its kinds with suitable examples. **20**
- VIII. What is meant by **anamolous secondary growth?** Describe its effects on plants. **20**