

NWFP, PUBLIC SERVICE COMMISSION, PESHAWAR.

COMPETITIVE EXAMINATION FOR PROVINCIAL MANAGEMENT SERVICE, 2008.

BOTANY, PAPER-I

Time Allowed: 03 Hours

Max: Marks:100

Note: Attempt any **FIVE** questions.

- I. Describe the range of vegetative structures found in algae. (20)
- II. How would you classify fungi? Give distinguishing characteristics of various groups of fungi giving suitable examples. (20)
- III. What are general principles of plant disease control? (20)
- IV. (a) Draw a labeled diagram of the longitudinal section of the capsule of *Funaria*. (10)
(b) Compare and contrast the structure of the thallus of *Marchantia* with that of *Riccia*. (10)
- V. (a) Describe the distribution and habitats of conifers of Pakistan. (10)
(b) Why *Cycas* is referred to as a "living fossil"? (10)
- VI. What is secondary growth? Describe the secondary growth of dicot stem with the help of suitable diagrams. (20)
- VII. Discuss modern trends in plant taxonomy. (20)