

ARUNACHAL PRADESH PUBLIC SERVICE COMMISSION

**FORESTRY: PAPER - I**

Time: 3 (Three) hours

Full marks: 100

*(Group - A is compulsory. Attempt any FOUR questions from Group - B).*

**GROUP - A**

**(This Group is COMPULSORY)**

**Q.1. Attempt any 10 (ten)**

**2x10=20**

- a) What is sheet erosion?
- b) List out important types of inoculum for VAM fungi.
- c) Give a list of suitable plant species for cold desert.
- d) What is second cycle seed orchard?
- e) What are phenotype and genotype?
- f) What are regular and irregular forests?
- g) What is acid rain? Write down its effects on plants.
- h) What is biological magnification?
- i) List out role of social development institutions in JFM.
- j) What is alley cropping?
- k) Write down the role of Van Vigyan Kendras.
- l) What is shelter belt?

**GROUP - B**

**(Answer any Four.)**

**Q. 2. Attempt any 8 (eight)**

**2.5x8=20**

- a) Write down the causes of watershed deterioration.
- b) What are major processes involved in the development of soil profile?
- c) What do you know about heritability?
- d) What are clonal and seedling seed orchards?
- e) What is photochemical smog?
- f) What is seed certification?
- g) What is cleft grafting?
- h) Write down the objectives participatory assessment.
- i) Write down the characteristics of mangroves.
- j) What do you know about environmental impact assessment?

**Q.3. Attempt any 5 (five)**

**4x5=20**

- a) Discuss the practices to be followed for controlling wind erosion.
- b) What is the importance of mist chambers in vegetative propagation?

