

ARUNACHAL PRADESH PUBLIC SERVICE COMMISSION

SOIL SCIENCE PAPER - II

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. Answer any 10 (ten) of the following questions.

2x10=20

- a) What is 'Organic Farming'? Write in short.
- b) Draw a distinction between 'Weather & Climate'?
- c) What are the different types of cloud precipitation?
- d) What do you mean by the term 'conservation irrigation'? Explain.
- e) State the causes of soil erosion.
- f) Write the characteristics of sodic soils.
- g) What do you mean by consumption? State in brief.
- h) What are the major functions of green manuring crops?
- i) Describe what do you mean by 'Farm mechanization'.
- j) What is water conservation? State in your own words.
- k) What is soil tilth? List the different types of soil tillage implements.
- l) What do you mean by 'nutrient antagonism'?

GROUP - B

(Answer any Four.)

Q. 2. Attempt any 8 (eight)

2.5x8=20

- a) Define marketing margin and marketing cost.
- b) State the control measures of weeds that commonly found in oilseed crops.
- c) Conservation agriculture vis-a vis sustainability of production system.
- d) What is insecticide? How it is classified?
- e) Briefly discuss what you mean by 'Nematodes'?
- f) Distinguish between the terms 'Farm and Firm.
- g) Write down the different cost concepts used in farm Management?
- h) State what do you understand by nitrogen fixation?
- i) What is Soil-Plant-Water relationship?
- j) Write a note on Drainage engineering.

Q.3 Write short notes on any 4 (four) of the following

5x4=20

- a) Farm Record Books
- b) Role of A V aids in extension education
- c) Plant protection equipments
- d) Soil pollution
- e) Integrated Pest Management (IPM)
- f) Agro forestry system

