

ARUNACHAL PRADESH PUBLIC SERVICE COMMISSION

**AGRICULTURAL SCIENCE – PAPER II**

Time: 3 hours

Max. Marks: 100

**NOTE : Answer any five questions**

- Q. 1** What are fungicides? How fungicides are classified on the basis of chemical nature? Write the typical symptoms, causal agent and control measures of yellow vein mosaic of Okra. 20
- Q. 2** Write short notes on:  
i) Pink disease                      ii) Damping off                      iii) Late blight of potato  
iv) Wart disease                      v) Die back 4 x 5=20
- Q. 3** Suggest the management practices of the following pests with an integrated approach:  
a) (i) Citrus trunk borer                      ii) Citrus leaf miner  
b) Name two common pests of stored rice and describe the methods of their control. 10+10 = 20
- Q. 4** a) Describe the symptoms of nematode diseases of banana and citrus.  
b) Discuss in brief the methods for nematode control. 8+12 = 20
- Q. 5** a) What do you understand by scientific farm layout?  
b) State its importance. What are the factors which determine good layout of a commercial farm. Explain briefly.  
c) Discuss in brief the characteristics of farm financial decisions. 4+8+8 = 20
- Q. 6** Explain the economic principles that help to decide the level of fertilization of a crop? Demonstrate the application of those principles by taking suitable examples. 10 + 10= 20
- Q. 7** Discuss the significance, scope and need of training in agricultural management system. Identify the types of training for extension programme workers and state the basic principles of extension training. 20
- Q. 8** a) Discuss the advantages of different tillage implements on the basis of classification according to the source of power used.  
b) Draw a distinction between the primary and secondary tillage operations.  
c) Suggest few effective measures to control soil erosion and water conservation. 8+4+8 = 20