



**PUNJAB PUBLIC SERVICE COMMISSION**

**COMBINED COMPETITIVE EXAMINATION 2017  
FOR RECRUITMENT TO THE POSTS OF  
PROVINCIAL MANAGEMENT SERVICE, ETC.**

**SUBJECT: AGRICULTURE (PAPER-I)**

**TIME ALLOWED: THREE HOURS**

**MAXIMUM MARKS: 100**

**NOTE: Attempt FIVE Questions in All. Attempt in Urdu or English.**

**Q No. 1:** ✗ What are the major problems of agricultural sector of Pakistan? What measures would you suggest to improve this sector?  
(15+5=20 Marks)

**Q No. 2:** ✗ What do you understand by the crop environment? Describe in detail different environmental factors affecting crop growth and productivity.  
(05+15=20 Marks)

**Q No. 3:** ✗ Discuss in detail the emerging water scarcity in Pakistan, its causes, impacts and remedial measures.  
(4+4+8+4=20 Marks)

**Q No. 4:** ✗ Define Biological Nitrogen Fixation (BNF), its importance and factors that affect Biological Nitrogen Fixation.  
(5+5+10 Marks)

**Q No. 5:** Describe Agro-Forestry system and its components. Discuss constraints faced by Agro-Forestry and their possible solutions.  
(6+6+4+4=20 Marks)

**Q No. 6:** ✗ What are the food processing industries of Pakistan? Elaborate the growing trends of the processed food industry in Pakistan and key challenges.  
(8+6+6=20 Marks)

**Q No. 7:** Discuss the concept of Agri-Extension, principles and types of Agri-Extension. What is role of audio-visual aids in Agri-extension?  
(5+5+5+5=20 Marks)

**Q No. 8:** ✓ Write short note on any FOUR of the following:- (5x4=20 Marks)

- a) Agro-Ecological zones of Pakistan.
- b) ✓ Role of bio-fertilizer and bio-pesticides in organic farming.
- c) ✓ Dry farming system in crops.
- d) ✓ Major Wild Life species in Pakistan.
- e) ✓ Source-sink relationship in crop/plant.
- f) ✓ Farm mechanization in Pakistan.