

PUNJAB PUBLIC SERVICE COMMISSION
COMBINED COMPETITIVE EXAMINATION FOR
RECRUITMENT TO THE POSTS OF
PROVINCIAL MANAGEMENT SERVICE -2019

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:** Describe various types of air pollutants, their sources and environmental risks associated with them. Also give measures to reduce environmental pollution.
(10+10=20 Marks)
- Q. No. 2:** Describe the role of rhizobia in symbiotic N₂-fixation in legumes. Also describe various factors affecting biological N₂-fixation.
(10+10=20 Marks)
- Q. No. 3:** Describe features of different agro-ecological zones of Pakistan with respect to physiography, climate, soil and land use.
(20 Marks)
- Q. No. 4:** Elaborate weed-crop interference mechanism. Describe different types of losses caused by weeds. Narrate in detail Integrated Weed Management System.
(5+5+10=20 Marks)
- Q. No. 5:** Discuss the role of food industry in value addition of agricultural products. Write down the problems of food contamination/adulteration facing Pakistani consumer and suggest control measures to address this problem. (10+10=20 Marks)
- Q. No. 6:** Narrate soil, crop and land management factors influencing soil fertility and crop nutrition. Describe Integrated Nutrient Management System for cultivated fields.
(10 + 10=20 Marks)
- Q. No. 7:** Write in detail the importance of Indus Basin Irrigation Systems in the development of Agriculture in Pakistan. Throw light on vulnerability and possible threats being posed to this system under changing climatic conditions.
(10 + 10=20 Marks)
- Q. No. 8:** Elaborate contribution of agriculture sector to the national economy of Pakistan. What role Information Technology (IT) can play to boost share of Agriculture sector to GDP of our country?
(10 + 10=20 Marks)