

PUNJAB PUBLIC SERVICE COMMISSION

COMBINED COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE POSTS OF PROVINCIAL MANAGEMENT SERVICE, ETC - 2014

SUBJECT: AGRICULTURE - I

TIME ALLOWED: THREE HOURS
MAXIMUM MARKS: 100

NOTE: All questions carry equal marks.

Q.1. What agricultural problems a farmer has to face in rainfed areas of Pakistan and how he can manage to overcome their bad effects.

Q.2. Explain the cotton production technology suitable for Pakistan farmers.

Q.3. What is the importance of Nitrogen in the plant growth? Explain the processes involved in Nitrogen cycle in the nature.

OR

Explain the factors which effect the plant growth.

Q.4. Give a critical review of different land reforms introduced in Pakistan.

OR

Give the history of land reforms along with their impact on agriculture in Pakistan.

Q.5. Discuss the Principles of farm forestry.

OR

What is meant by Agro-Forestry? Discuss how it supports a farmer as well as Agriculture environment.

Q.6. What is meant by farm mechanization? Discuss its pros and cons with particular reference to Pakistan Agriculture.

Q.7. What is meant by Organic farming? Do you recommend it to be adopted in Pakistan in general? Explain your answer with reasons.

Q.8. Define Agricultural Extension. Discuss different approaches of agricultural extension under practice in Pakistan and suggest measures for further improvement.

Q.9. What are the main objectives of food preservation? Discuss the methods of food preservation by lowering the temperature.

Q.10. Write short notes on any TWO of the following:

- i). Photosynthesis
- ii). WTO
- iii). Bio-fertilizers
- iv). Land Reforms

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SUBJECT: AGRICULTURE - II

TIME ALLOWED: THREE HOURS
MAXIMUM MARKS: 100

NOTE: Attempt all questions. Write answers in English.

Q.1. Define genetics and discuss its contribution to boost yield potential of various crop.

Q.2. What is Genetic variation? Discuss with the help of suitable examples, its sources and types that have led to the evolution of new crop plants.

Q.3. Discuss the role of edible oil seeds in agriculture and economy of Pakistan.

Q.4. What is sustainable Agriculture? Discuss in details the factors responsible for sustainable agriculture. Also explain the impact of sustainable agriculture on the economy of Pakistan.

OR

Discuss the postharvest losses in Horticulture crops and also suggest some management practice to control these losses.

Q.5. Explain step wise procedure to develop hybrid seed of maize crop. Why farmers are generally unable to produce hybrid seed at their own farms?

Q.6. What are transgenic crops? Discuss techniques used to develop transgenic crops. Also explain the benefits and hazards in cultivation of transgenic crops in some countries of the world.

Q.7. Climate change has emerged as important global scenario. Discuss its impact on agriculture productivity in Pakistan. Also suggest some strategies to overcome this problem.

Q.8. Enlist the major insects/pets of cotton crop. Also explain their damaging effect and control measures to have a good cotton crop.

OR

Discuss various major diseases of rice crop which affect growth and development of rice plant and ultimately the paddy yield. Give solution to control these disease effectively.

Q.9. Discuss various types of agricultural pollution. Also describe the causes and management practices to overcome this issue.

Q.10. What is salinity stress? Discuss mechanisms of salt tolerance in crop plants.

Q.11. What is Tissue culture technique? Discuss its contribution for boosting the productivity of Horticultural crops with suitable examples.

Q.12. What is organic farming? Discuss its future prospects and challenges in Pakistan with logical reasons.

OR

What is Precision Agriculture? Discuss its role in sustainable agriculture in an Agro based country like Pakistan.

Q.13. What are major types of soils, present in Pakistan? Discuss their role in affecting the productivity of various crops with suitable examples.

Q.14. Wheat is our staple food. There is huge gap between its actual (Potential) yield and average yield in Pakistan. Describe the modern production technology to have maximum yield of this crop.

Q.15. Enlist the major mango diseases prevalent now a days in Pakistan. Also describe the methods of screening of mango germplasm and its use to control disease of mango plant.

OR

What do you understand by the term Olericulture? Discuss its role in improving the health and welfare of peoples of our country.

Q.16. Write short note on the following:-

- i). Bt.Cotton in Pakistan
- ii). IPM (In Agriculture)
- iii). Molecular Breeding of crops
- iv). Kitchen Gardening
- v). Farm Mechanization